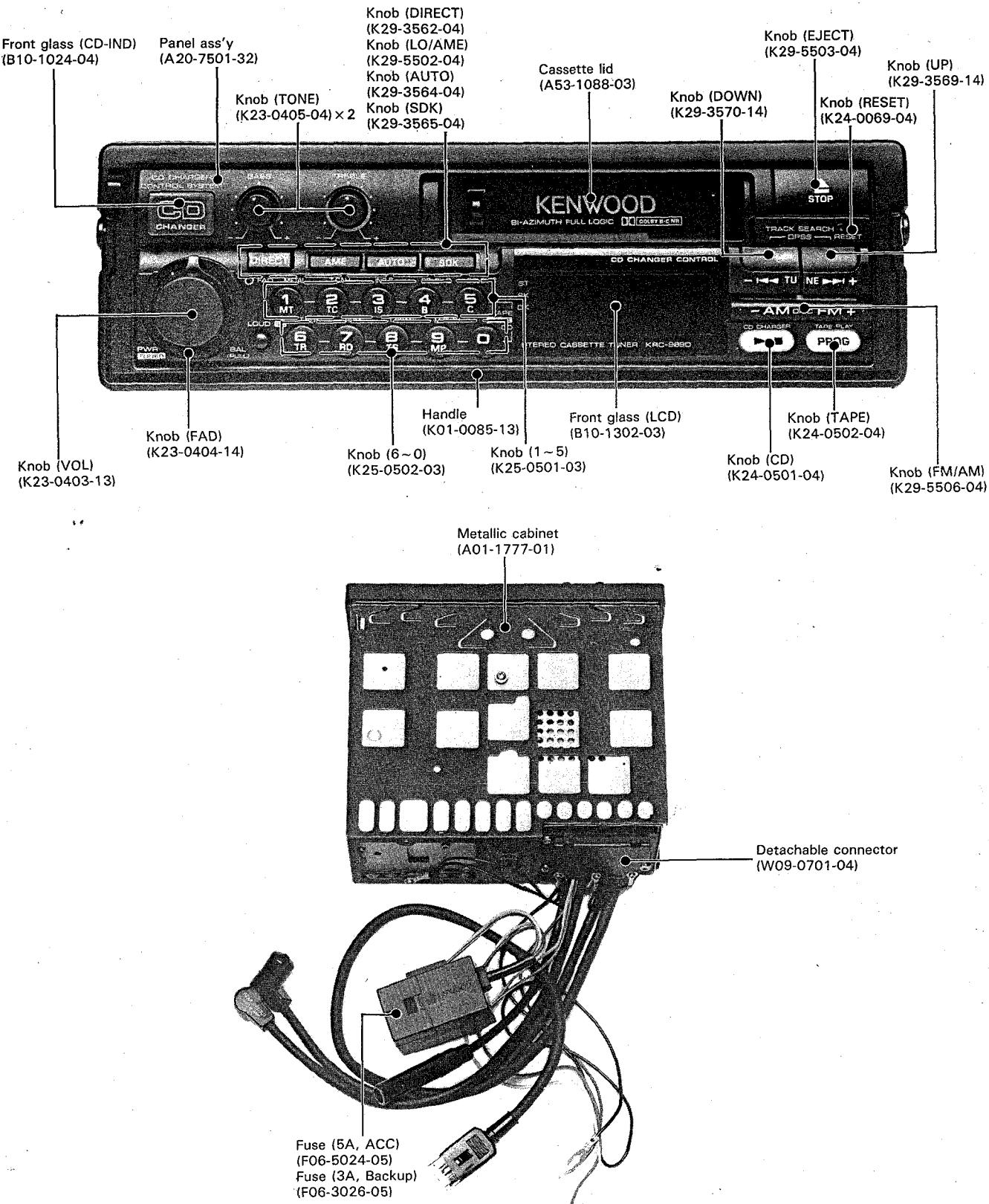


STEREO CASSETTE RECEIVER
KRC-989D
 SERVICE MANUAL

KENWOOD

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 B51-6039-00(T)1508





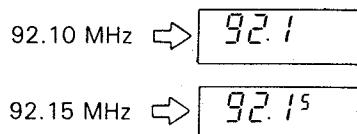
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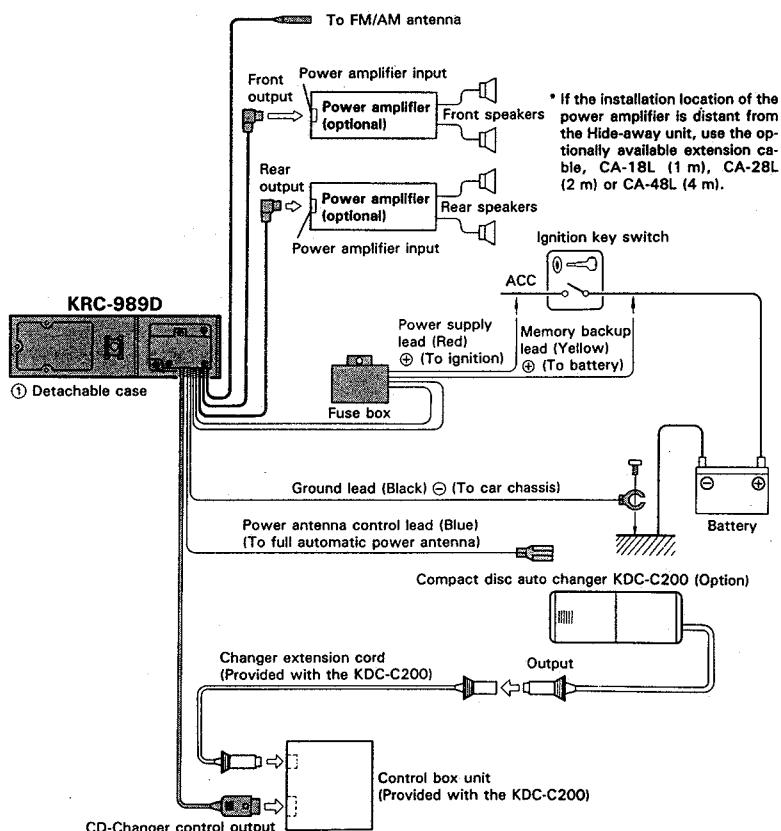
FREQUENCY DISPLAY

- For FM, final frequencies 50 kHz is represented respectively by " 5 " on the frequency display.

For example:

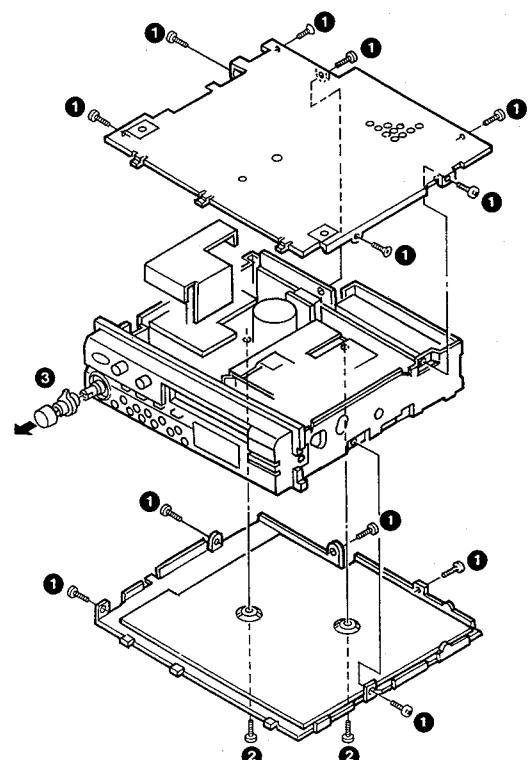


CONNECTIONS



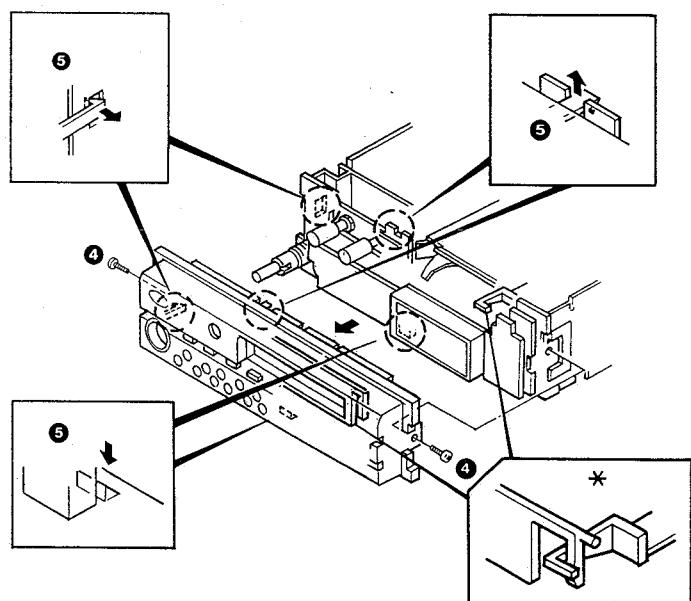
DISASSEMBLY FOR REPAIR

1. Remove the 12 screws (1).
2. Remove the two screws (2).
3. Take out the knob (3).



4. Remove the two screws (4).
5. Undo the catch of the front panel (5).

* When installing the front panel, put the cassette lid and the mechanism lever into alignment with each other as shown in the illustration.

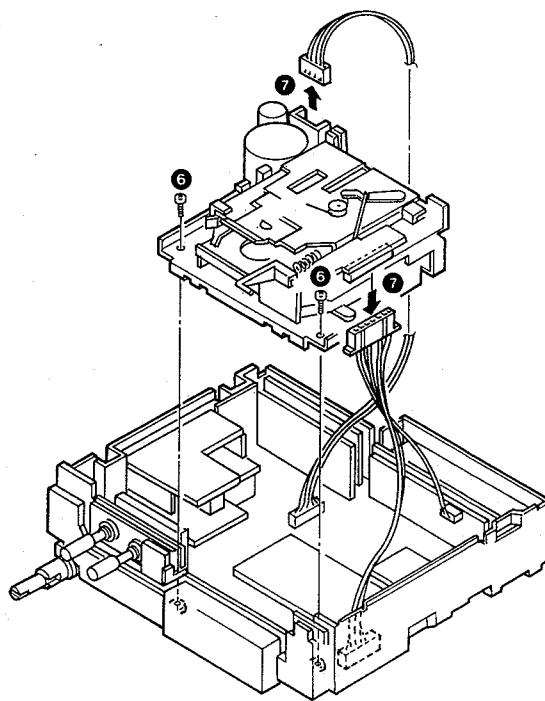


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DISASSEMBLY FOR REPAIR

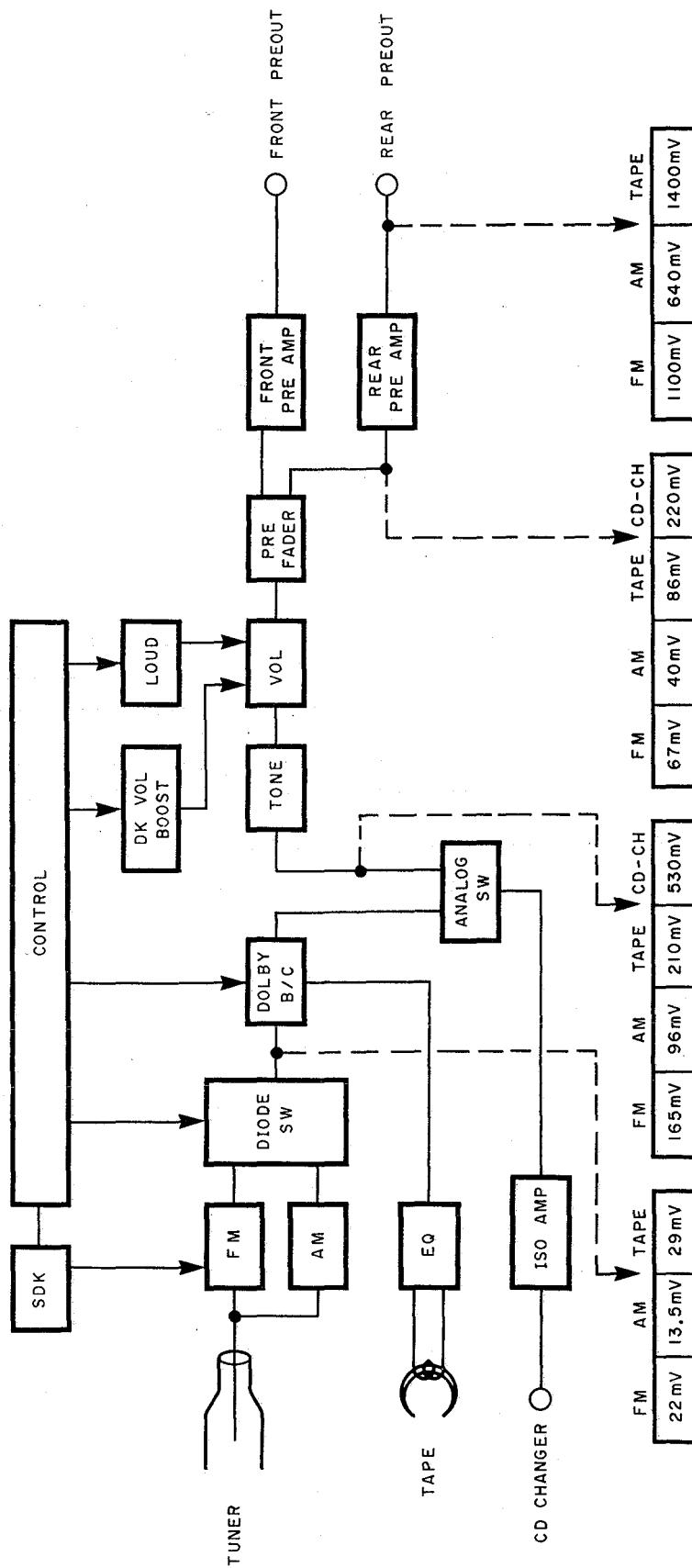
(Removing the mechanism)

6. Remove the two screws (6).
7. Disconnect the two connectors (7).



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BLOCK & LEVEL DIAGRAM



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CIRCUIT DESCRIPTION

SYNTHESIZER UNIT (X14-2612-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	BA3708F	T-advance section-between-tunes detection IC	
IC2	LM7001	PLL IC	Constitutes AM pack, FM front-end local oscillator and PLL.
IC3	BA3900-V1	System power supply IC	<ul style="list-style-type: none"> Regulated power supply (COM 9V, FM 9V, AM 9V, microprocessor 5.6V) Outputs the muting signal in the standby mode.
Q1	2SD1469F	Mechanism plunger driver	
Q2	DTC124EK	SK lamp faulty-lighting inhibit switch	
Q3	DTC144EK	ST lamp lighting switch	
Q4	DTA144EK	AM AGC switch	
Q5	2SC2412K(S)	FM seek stop switch	
Q6	2SC2412K(S)	AM seek stop switch	
Q7	2SC2412K(S)	SD inverter	
Q8	DTA144EK	AMBS switch	
Q9	DTC124EK	Mechanism motor driver	
Q10	2SK669	PLL LPF for both FM and AM	
Q11	2SA1428 (O,Y)	Mechanism motor driver	
Q12,13	2SD1469F	Mechanism plunger driver	
Q14	2SA1037K	B.U. detection circuit	
Q15,18	DTC124EK	TAPE/RADIO selection switch	
Q16,17	DTC124EK	Dolby B/C/OFF selection switch	
Q19,20	2SD1757K	Loudness switch	
Q21,22	2SD1757K	Mute	
Q23	2SD1757K	Volume boost switch	
Q24			
Q25,26	DTC124EK	ILL inhibit circuit	
Q27, Q28,29	DTC124EK 2SB822F	2-color ILL selection circuit	
Q30	2SB822F	Auto ILL driver	
Q31	2SB1181F5	—	
Q32	2SC2412K(S)	—	
Q100 Q101	DTC124EK 2SB822F	CD changer indication	With X88 CN4 56 pin CD-IND at "H", the changer lamp lights.
Q102 Q103	DTC124EK DTA124EK	Tuner ON/OFF, Power ON/OFF	
Q104 Q105	DTA124EK DTC144EK	Key scan detection switch	

ELECTRIC UNIT (X25-3642-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC2,3	μ PC4570G2		Preamplifier for front and rear
IC4	NJM5532MD	BUFF AMP	Tone amplifier
IC5	TC74HC04AF	Changer communication inverter	
IC6	μ PD4066BG	Changer signal selection	
IC10	KC-855	Changer ISO amplifier	
Q1,2	DTC124EK	Changer input selection	
Q3 Q4	2SC2412K 2SB941	ILLM constant voltage	10 V
Q17~19	2SA1037K 2SC2412K 2SA1037K	P-CON output control	
Q20	2SA1428	P-CON output	
Q22	DTA124EK	RST output	

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CIRCUIT DESCRIPTION

TUNER UNIT (X86-1142-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	AN6556S	SDK IC	<ul style="list-style-type: none"> Demodulation and detection of BK and DK signals Logic generation for existence/nonexistence of BK and DK signals
IC2	TDA1579T	Input buffer, BK BPF	<ul style="list-style-type: none"> KC1 input pre-buffer Combined with KC1, forms a BPF that passes the higher zone of the BK signal frequencies.

FRONT-END UNIT (X86-1162-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	IF3S201A	FM IF amplifier/detector	
IC2	EHD-DP1310	Noise canceller/MPX	
IC3	μ PC4570G2	Tape EQ amplifier	
Q1	2SC2413K	IF amplifier	
Q2	2SC2412K	ANRC driver	
Q3	2SC2412K	ANRC buffer	
Q5	2SC2412K	ST noise control	
Q6	DTC124EK	AFC control	
Q7,8	2SC2412K	Metal tape switch	
Q9,10	2SD1757K	EQ mute	

DOLBY NOISE REDUCTION UNIT (X87-1352-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	CXA1098Q	Dolby B/C IC	RADIO/TAPE signal selection and amplification Dolby B/C decode

DIGITAL I/O UNIT (X88-1032-70)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	75108G-E68-1B	Microprocessor	Key input acceptance PLL, display and mechanism control Others include control signal generation, each status input acceptance and mutual operation.
IC2	BU4069UBF TC4069UBF μ PD4069UBG	Inverter	Change from active "L" to active "H"
IC3,4	BU4081BF μ PD4081BG-T1	Alternate key switch	
IC5	TC4011BF BU4011BF μ PD4011 BG-T1	Auto ILL monostable multivibrator	
Q1	DTA144EK	Microprocessor mute inverter buffer	
Q2 Q3	DTC124EK 2SA1037K	Audio mute driver	
Q4	DTC124EK	Auto ILL inverter buffer	
Q5 Q6	2SA1037K DTA144EK	P-ON mute generation circuit	
Q7	2SA1037K	Volume boost driver	
Q11	DTC124EK	DK inverter buffer	
Q12	2SA1037K	Loudness driver	
Q13	DTC144WK	Selectable ILL inverter	

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CIRCUIT DESCRIPTION

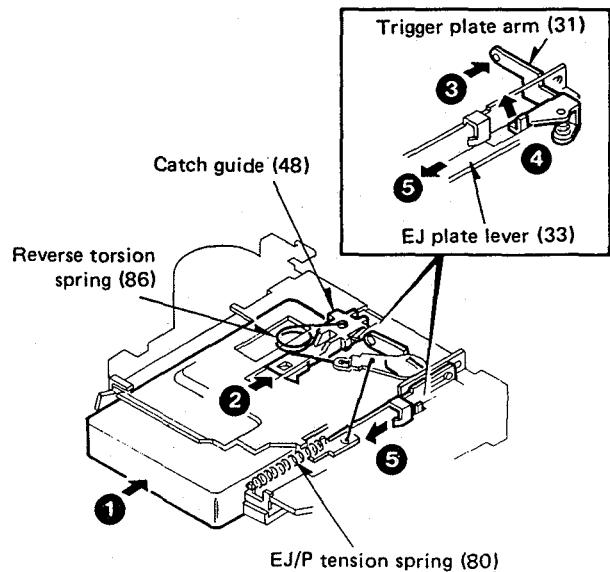
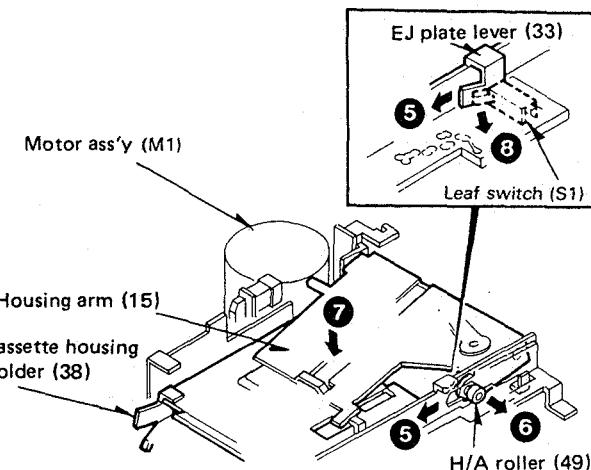
Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q14	DTC124EK	Auto ILL inhibit	
Q18 Q19	2SC2412K DTC124EK	RST level shift	
Q20	DTC124EK	BS inverter buffer	
Q21	DTC124EK	REG. control	
Q22	DTA144EK	P-CON inverter buffer	
Q23	DTA144EK	FF inverter buffer	
Q24	DTA144EK	REW inverter buffer	
Q25	DTA144EK	PROG. inverter buffer	
Q26	DTA144EK	FM inverter buffer	
Q27	DTA144EK	MW inverter buffer	
Q28	DTA144EK	LW inverter buffer	
Q29	2SA1036K	P-ON 5.6V switch	
Q30	DTC124EK	IGN inhibit	During TPC switch ON, Q30 turns ON to perform compulsory power OFF.
Q31	DTC124EK	AGC cut inverter	
Q32	DTC143TK	Manual reset driver	
Q34 Q35	2SC2412K 2SA1037K	Standby/reset Schmitt circuit	
Q36	DTC143TK	Auto RST driver	
Q37	DTA114EK	PACK IN 5.6V switch	
Q38	DTC144WK	Reel pulse shaper	
Q39	DTA144EK	Manual RST inverter	
Q40	DTA144EK	CD changer control	

MECHANISM DESCRIPTION

1. Loading

If the cassette tape is pressed by the finger, the catch guide (48) is pushed in and the reverse torsion spring (86) is set on the loading side. If the cassette is pushed into the end, the trigger plate arm (31) rotates and the EJ plate lever (33) is released. Then, EJ/P tension spring (80) pulls the EJ plate lever (33) and the housing arm (15) and cassette housing holder (38) are pushed down through the H/A roller (49). The head plate (803) is also moved to the mode plate lever ass'y (9). The leaf switch (S1) is also pressed. At this time, the plunger solenoid (103) is turned on and the motor ass'y (M1) rotates.

Note : The number in the parentheses refer to the Ref. Nos. in the exploded view. (P. 42)



MECHANISM DESCRIPTION

2. PLAY

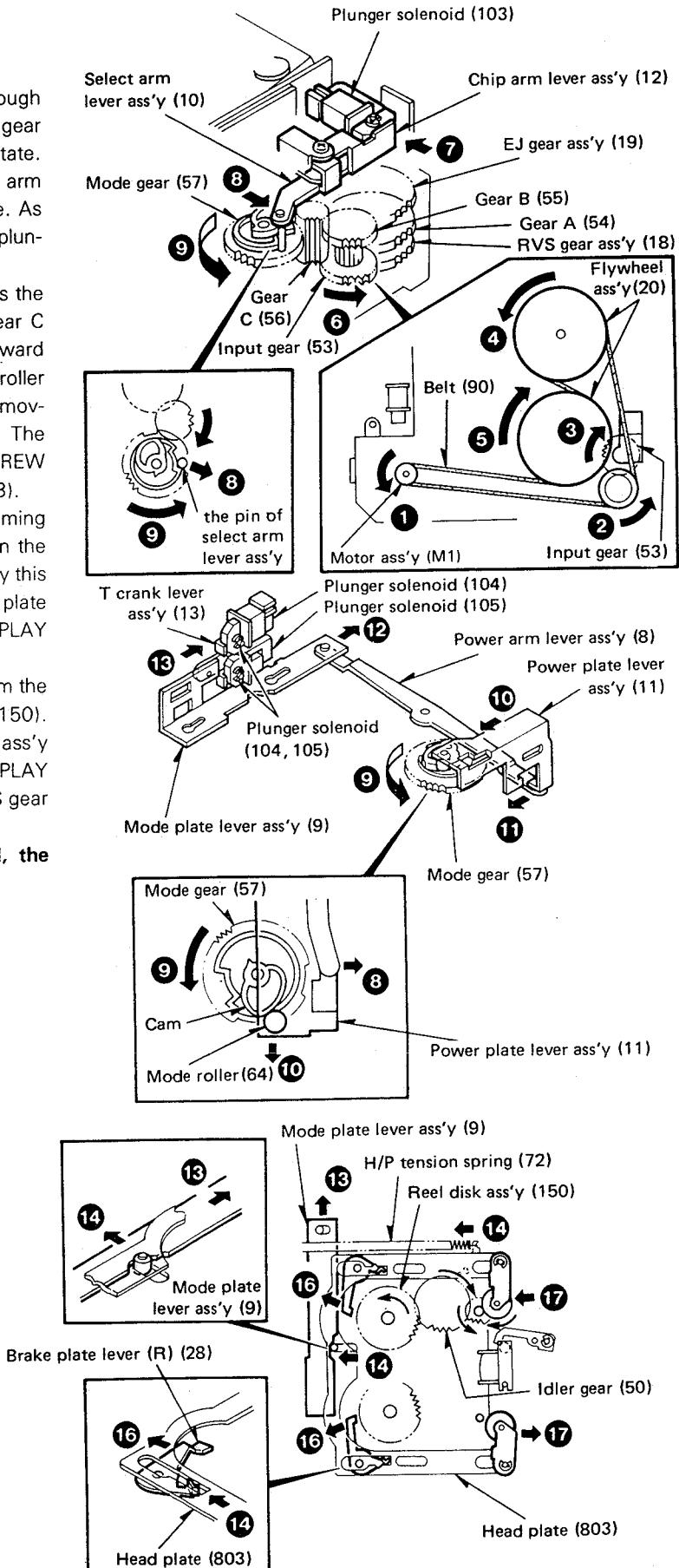
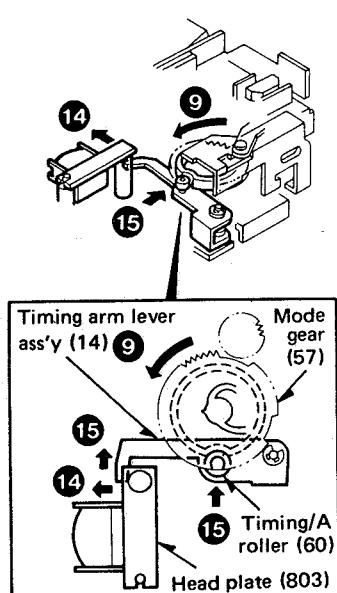
The rotation of the motor ass'y (M1) is transmitted through the belt (90) to the flywheel ass'y (20) to rotate the input gear (53). Next, gear A (54), gear B (55), and gear C (56) rotate. Then, the EJ gear ass'y (19) rotates to move the select arm lever ass'y (10) to the plunger solenoid (104, 105) side. As the result, the chip arm lever ass'y (12) is attracted by the plunger solenoid (103).

The other pin of the select arm lever ass'y (10) releases the mode gear (57). The mode gear (57) is rotated by gear C (56), and the power plate lever ass'y (11) is moved forward by the cam of the mode gear (57) through the mode roller (64). At the same time, the mode plate lever ass'y (9) is moved backward through the power arm lever ass'y (8). The mode plate lever ass'y (9) is attracted by the FF and REW solenoid (104, 105) through the T crank lever ass'y (13).

After the above operation, timing/A roller (60) of the timing arm lever ass'y (14) under the mode gear (57) is put in the groove of the cam of mode gear (57) to lock the gear. By this operation of the timing arm lever ass'y (14), the head plate (803) is pulled by the H/P tension spring (72) to the PLAY position.

The rotation of the flywheel ass'y (20) is transmitted from the inside gear to the idler gear (50) and reel disk ass'y (150). The brake plate levers (27, 28) applied to the reel disk ass'y (150) has been released by the head plate. In the PLAY mode, the mode gear (57), EJ gear ass'y (19), and RVS gear ass'y (18) are locked by the notches.

Note : If the power tension spring (84) is removed, the mechanism can be checked easily.

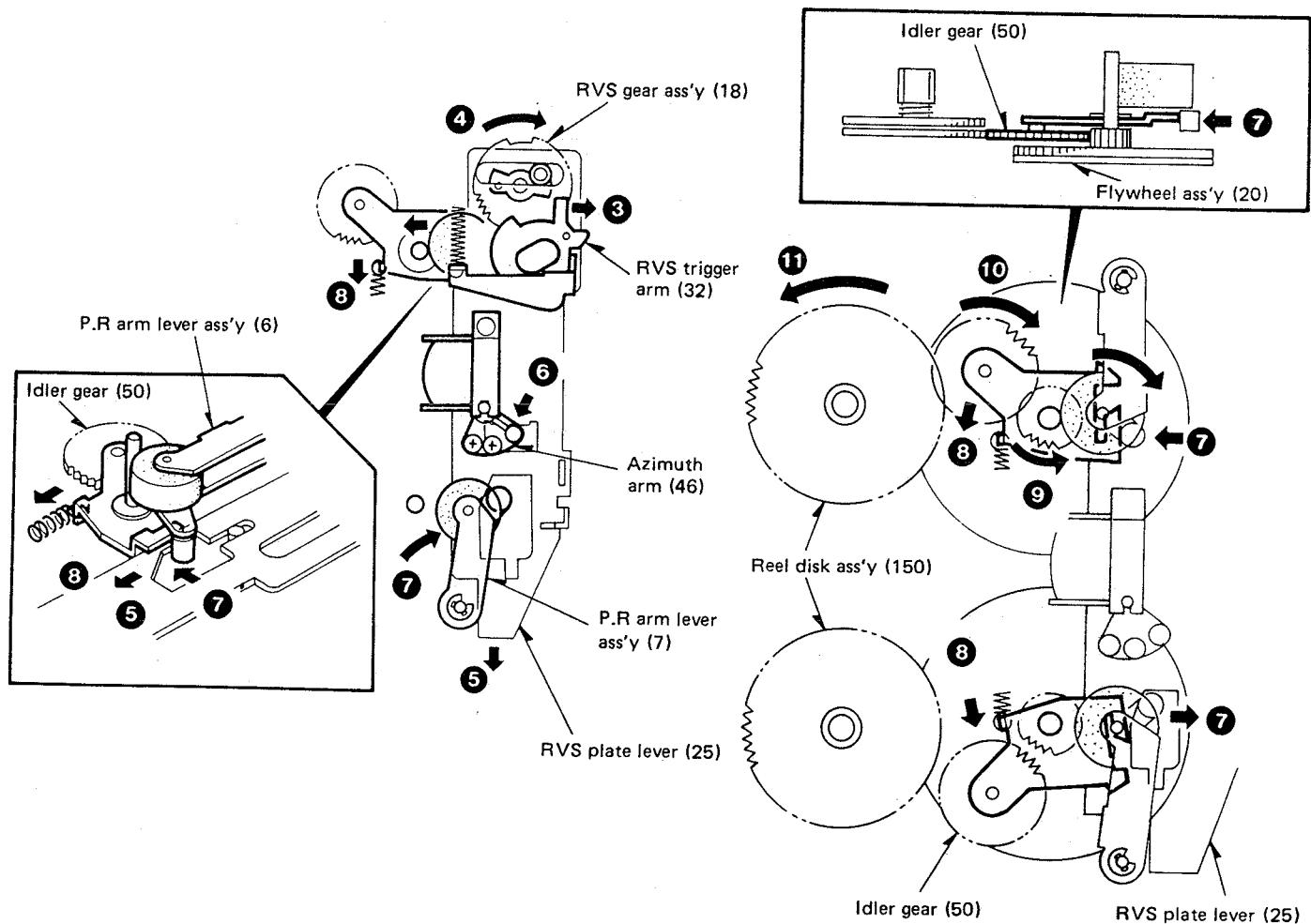
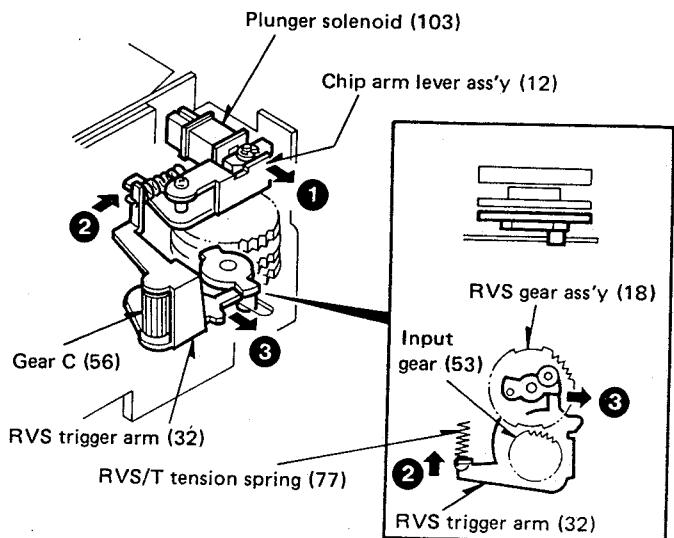


MECHANISM DESCRIPTION

3. PROG.

If the program button is pressed, the plunger solenoid (103) is turned off and the chip arm lever ass'y (12) is moved outward. At the same time, the RVS trigger arm (32) releases the RVS gear ass'y (18) through the RVS/T tension spring (77). Then, the RVS gear ass'y (18) is rotated a half turn by the input gear (53), and the RVS plate lever (25) is moved. At this time, the RVS trigger arm (32) is set to the lock side by the RVS gear ass'y (18), then the chip arm lever ass'y (12) is attracted again by the plunger solenoid (103) because of the force of the chip arm tension spring (78).

The RVS plate lever (25) moves the head slide switch (S2), azimuth arm (46), and P.R arm lever ass'y (6, 7). The P.R arm lever ass'y (6, 7) moves the idler gear (50) through the idler gear arm of the main chassis ass'y (801).



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MECHANISM DESCRIPTION

4. FF/REW

If FF or REW button is pressed, the plunger solenoid (104) or (105) is turned off depending on the direction of PLAY, and the T crank lever ass'y (13) is rotated by the force of the power tension spring (84). At this time, the head plate (803) is moved a little backward by the movement of the mode plate lever ass'y (9). The FF crank arm (45) is rotated by the T crank lever ass'y (13) to slide the FF plate lever (26) and rotate the FF arm lever ass'y (5). Then, the rotation of the flywheel ass'y (20) is transmitted to the reel disk ass'y (150) through the FF gear ass'y (17).

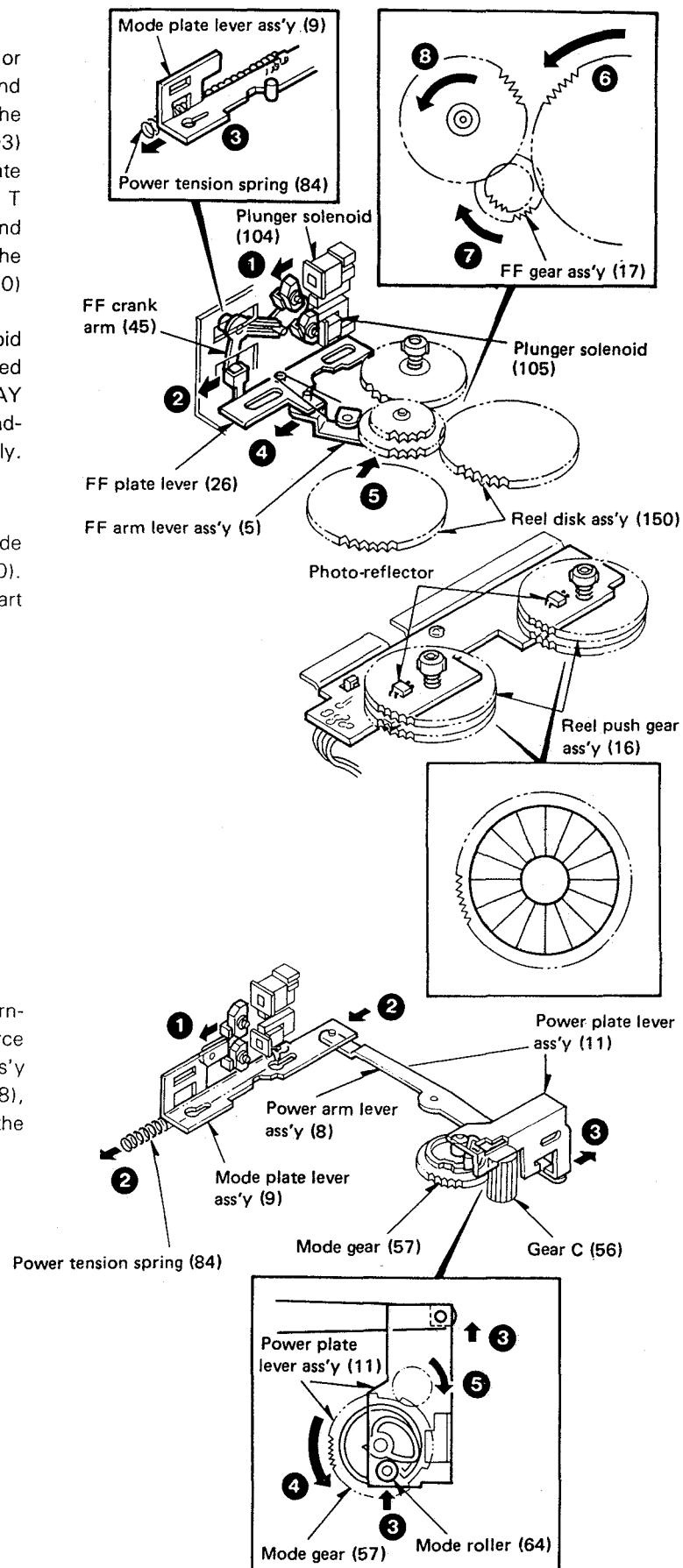
If the PLAY/PROG. button is pressed, both plunger solenoid (104, 105) are turned off and the head plate (803) is returned to the position after the loading, then it is reset to the PLAY mode by the rotation of the motor ass'y (M1). The tape advancing and index scanning operation is performed similarly.

5. Automatic reverse

The rotation is sensed by the photo-reflector on the back side of the reel push gear ass'y (16) of the reel disk ass'y (150). The sensed signal is input to the mechanism control IC to start the program.

6. Eject

If the eject button is pressed, all the plunger solenoid are turned off. The head plate (803) is moved backward by the force of the power tension spring (84). The power plate lever ass'y (11) is pushed back through the power arm lever ass'y (8), and the mode gear (57) is meshed with gear C (56) by the mode roller (64).



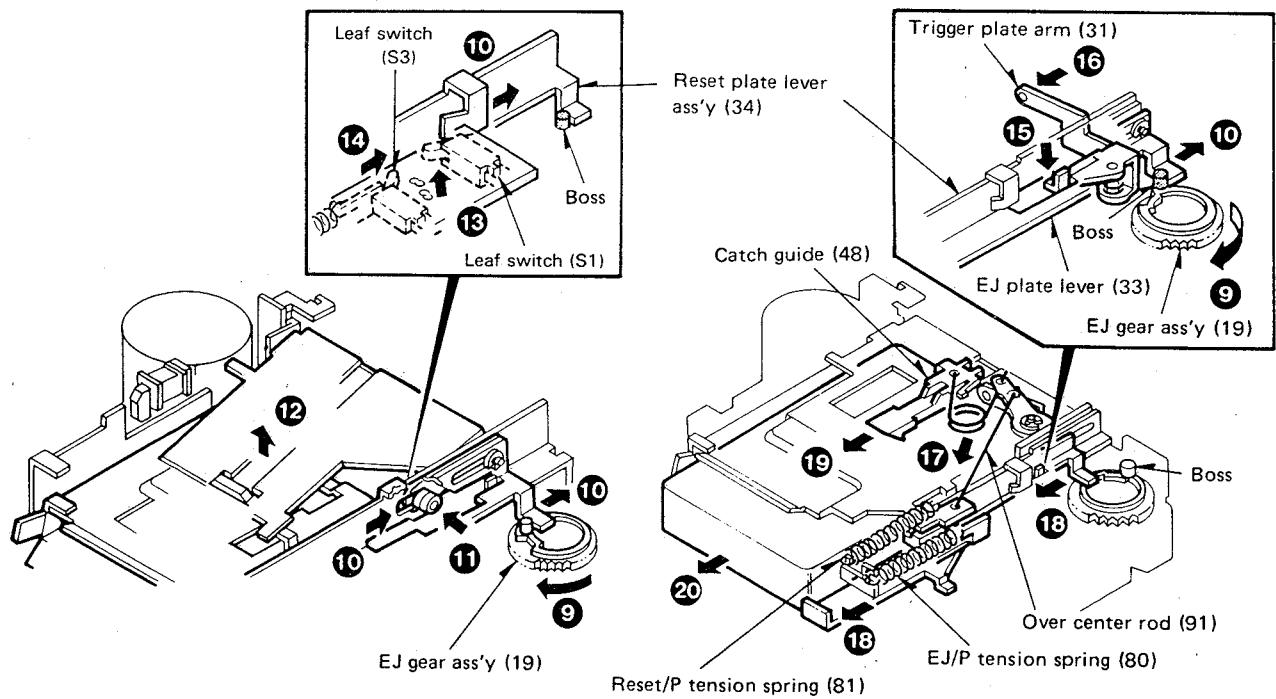
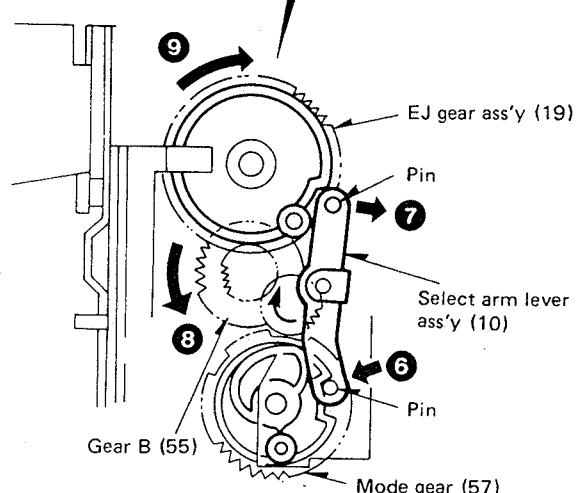
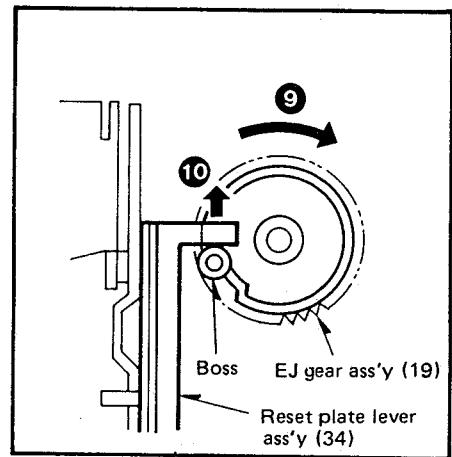
MECHANISM DESCRIPTION

The mode gear (57) is rotated and the pin of the select arm lever ass'y (10) is put in the groove of the peripheral cam of the mode gear. Then, the EJ gear ass'y (19) is meshed with gear B (55) and rotated by releasing the other pin of the select arm lever ass'y (10). The reset plate lever ass'y (34) is moved back by the upper boss of the EJ gear ass'y (19) to turn on the leaf switch (100) for ejection to turn on the motor.

At the same time, the EJ plate lever (33) is also moved back and fixed to the trigger plate arm (31) through the tension spring (87) for preventing an overload. While the reset plate lever ass'y (34) is moving back, the catch guide (48) is pushed forward through the over center rod (91). At this time, the cassette housing holder (38) is lifted by the EJ plate lever (33).

Then, the EJ gear ass'y (19) rotates. When its boss is parted from the reset plate lever ass'y (34), the reset plate lever ass'y (34) is returned to the forward position by the reset/P tension spring (81). At this time, the over center rod (91) is pulled, and the catch guide (48) is moved forward to discharge the cassette.

Even if the power switch is turned off, the loading operation can be performed, but the mechanism is set to the ejection mode immediately, because the loading mechanism is turned on by the leaf switch (S1) and the motor is turned on by the leaf switch (S3) to start the ejection operation.



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ADJUSTMENT

Set the controls and switches as follows.

BALANCE: center position LOUD : OFF LOCAL: OFF
 FADER : center position T-ADV : OFF AUTO : OFF
 BASS : center position METAL : OFF
 TREBLE : center position DOLBY NR : OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1.	DISCRIMINATOR	(A) 98.1MHz 0 dev 60dB μ (ANT input)	Connect the DC voltmeter between pins of TP1.	FM 98.1MHz	L2 (X86)	0V	(a)
2	SEPARATION	(C) 98.1MHz 1kHz, ±33.5kHz dev Pilot: ±7.5kHz dev Selector: L or R 60dB μ (ANT input)	(B)	FM 98.1MHz	VR4 (X86)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC	(C) 98.1MHz 1kHz, ±33.5kHz dev Pilot: ±7.5kHz dev Selector: L or R 35dB μ (ANT input)	(B)	FM 98.1MHz	VR1 (X86)	Separation 10 dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 1kHz, ±40kHz dev 20dB μ (ANT input)	—	FM SEEK: ON 98.1MHz	VR2 (X86)	STOP	
5	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ±40kHz dev 60dB μ → No input	(B)	FM 98.1kHz	VR3 (X86)	Output Noise level –25dB μ (When not add any signal to ANT terminal)	
SDK SECTION							
7	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dB μ (ANT input)	Connect the AC voltmeter to TP2. (X14)	FM 98.1MHz SDK: OFF	L1 VR1 (X14)	Maximum	(b)
AM SECTION							
(1)	STOP LEVEL	(D) 990kHz 400Hz, 30% mod 35dB μ (ANT input)	—	AM 990kHz	VR2 (X14)	STOP	
CASSETTE DECK SECTION							
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(c)
[2]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to TP. (X14)	TAPE PLAY	VR5 (L) VR6 (R) (X86)	452mV	(d)

SDK and Dolby check pins:

The set of this time is not provided with SDK and Dolby check pins, with which conventional sets are provided.

These two, adjustments are to be performed in the check land

(pattern) of the mother board (through the hole made on the bottom plate).

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REGLAGES

Régler les controles et les boutons comme suit.

BALANCE: position centre LOUD : OFF LOCAL: OFF
 FADER : position centre T-ADV : OFF AUTO : OFF
 BASS : position centre METAL : OFF
 TREBLE : position centre DOLBY NR : OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
1	Discriminateur	(A) 98,1MHz 0 dév., 60dB μ (entrée ANT)	Raccorder le voltmètre CC entre les deux broches de TP1.	FM 98,1MHz	L2 (X86)	0V	(a)
2	Séparation	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz dév. Pilote: $\pm 7,5$ kHz dév. Sélecteur: L ou R 60dB μ (entrée ANT)	(B)	FM 98,1MHz	VR4 (X86)	Ajuster de sorte que la diaphonie de L à R et de R à L soit minimum.	
3	ANRC	(C) 98,1MHz 1kHz, $\pm 33,5$ kHz dév. Pilote: $\pm 7,5$ kHz dév. Sélecteur: L ou R 35dB μ (entrée ANT)	(B)	FM 98,1MHz	VR1 (X86)	Séparation 10 dB	
4	Niveau d'arrêt de recherche	(A) 98,1MHz 1kHz, ± 40 kHz dév. 20dB μ (entrée ANT)	—	FM Recherche: En service 98,1MHz	VR2 (X86)	Arrêt	
5	Niveau sourdine douce	(A) 98,1MHz 1kHz, ± 40 kHz dév. 60dB μ → Pas d'entrée	(B)	FM 98,1kHz	VR3 (X86)	Niveau de bruit en sortie -25dB μ (Quand aucun signal ajouté à la borne ANT)	
SECTION SDK							
7	Niveau de DK	(E) 98,1MHz 0 et SK 5,33% DK 30% BK 60% 60dB μ (entrée ANT)	Connecter un voltmètre CA les TP2. (X14)	FM 98,1MHz SDK: Hors service	L1 VR1 (X14)	Maximum	(b)
SECTION MA							
(1)	Niveau d'arrêt	(D) 990kHz 400Hz, 30% mod 35dB μ (entrée ANT)	—	AM 990kHz	VR2 (X14)	Arrêt	
SECTION DU MAGNETPHONE							
[1]	Azimut	MTT-114 10kHz	(B)	Lecture de bande	Vis d'azimut de tête	Ajuster l'azimut pour que chaque L CH/R CH ou FWD/RVS devienne maximal.	(c)
[2]	Niveau de lecture	MTT-150	Connecter un voltmètre CA les TP. (X14)	Lecture de bande	VR5 (G) VR6 (D) (X86)	452mV	(d)

Broches de vérification SDK et Dolby:

Cet appareil n'est pas pourvu des broches de vérification SDK et Dolby qui existent sur les appareils conventionnels. Ces deux ajustements doivent être effectués dans la plage de

vérification (motif) de la carte mère (par l'orifice prévu sur la plaque de fond).

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ABGLEICH

Die Regler und Knöpfe wirke folgt einstellen.

BALANCE: Mittelage LOUD : OFF LOCAL: OFF
 FADER : Mittelage T-ADV : OFF AUTO : OFF
 BASS : Mittelage METAL : OFF
 TREBLE : Mittelage DOLBY NR : OFF

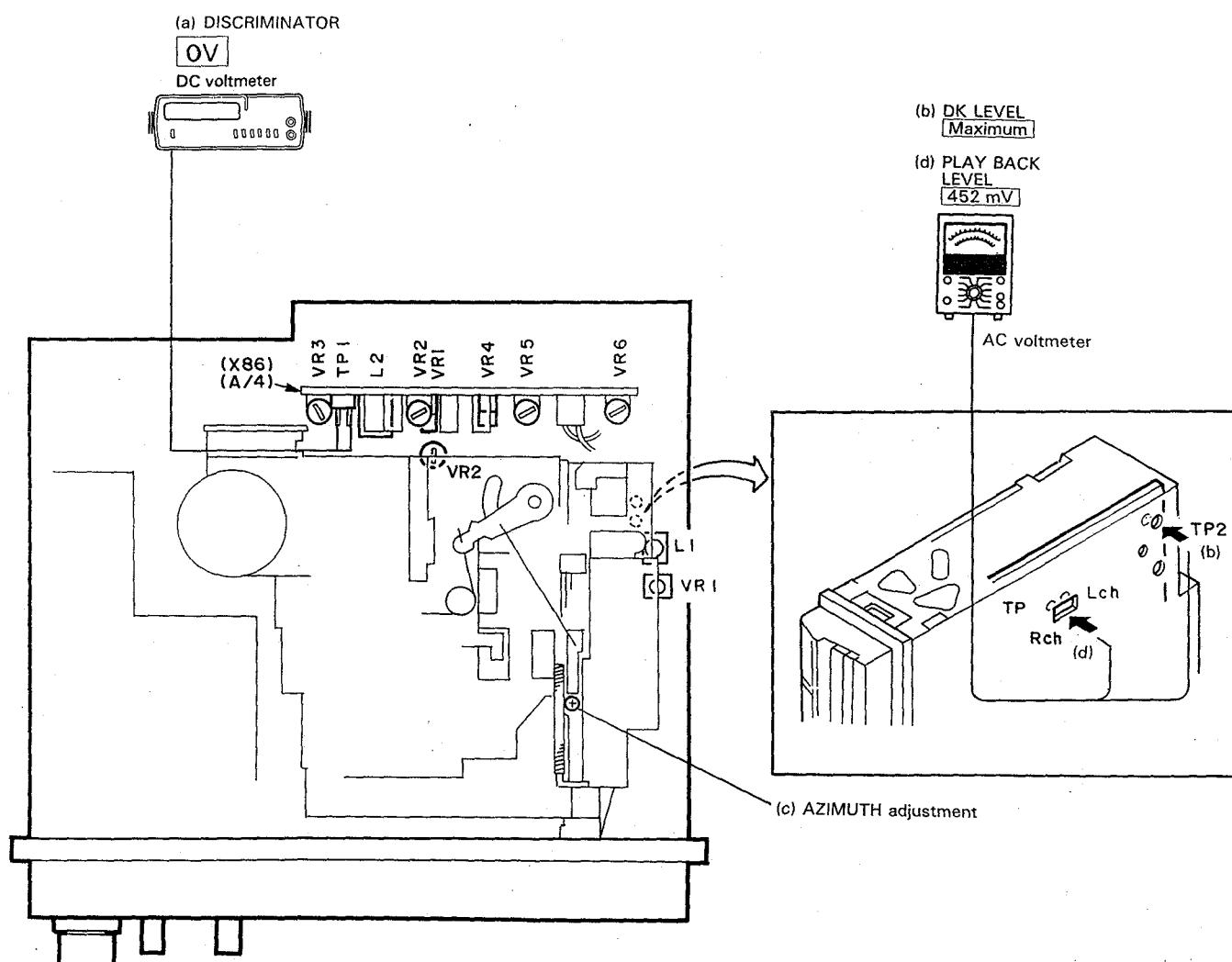
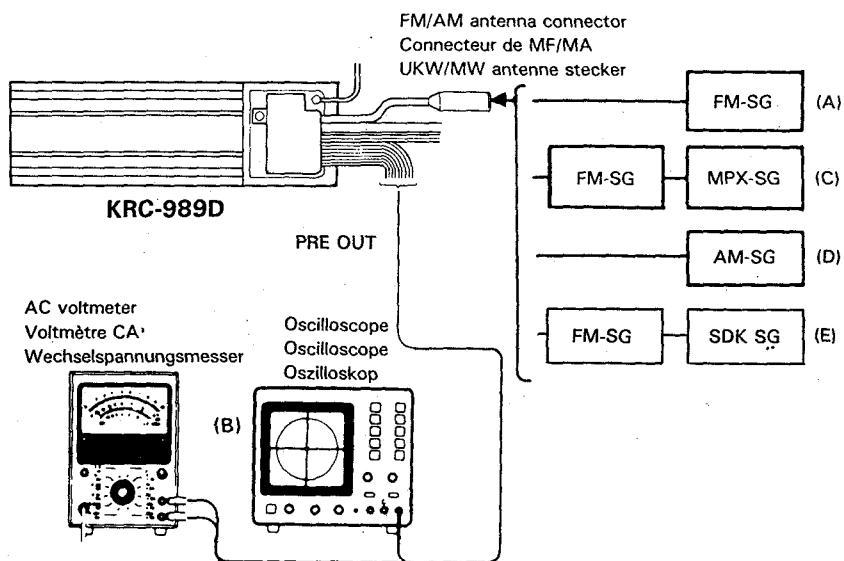
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRIIMINATOR	(A) 98,1MHz 0 Hub 60dB μ (ANT-Eingang)	Das Gleichstrom-Voltmeter zwischen den Stiften von TP1 anschließen.	FM 98,1MHz	L2 (X86)	0V	(a)
2	TRENNUNG	(C) 98,1MHz 1kHz, \pm 33,5kHz Hub Pilot: \pm 7,5kHz Hub Wähler: L oder R 60dB μ (ANT-Eingang)	(B)	FM 98,1MHz	VR4 (X86)	So einstellen, daß das Übersprechen von L zu R und von R zu L minimal wird.	
3	ANRC	(C) 98,1MHz 1kHz, \pm 33,5kHz Hub Pilot: \pm 7,5kHz Hub Wähler: L oder R 35dB μ (ANT-Eingang)	(B)	FM 98,1MHz	VR1 (X86)	Trennung 10 dB	
4	SUCHLAUF-STOPPEGEL	(A) 98,1MHz 1kHz, \pm 40kHz Hub 20dB μ (ANT-Eingang)	—	FM SUCHLAUF: ON 98,1MHz	VR2 (X86)	STOP	
5	DÄMPFUNGSPEGEL	(A) 98,1MHz 1kHz, \pm 40kHz Hub 60dB μ → Kein Eingang	(B)	FM 98,1kHz	VR3 (X86)	Ausgangsrauschpegel – 25dB μ (Kein Signal an den ANT-Anschluß anlegen.)	
SDK-ABTEILUNG							
7	DK-PEGEL	(E) 98,1MHz 0 Mod. SK 5,33% DK 30% BK 60% 60dB μ (ANT-Eingang)	Eine Wechselspannungsmesser zwischen zu TP2 anschließen.	FM 98,1MHz SDK: OFF	L1 VR1 (X14)	Maximum	(b)
MW-ABTEILUNG							
(1)	STOP-PEGEL	(D) 990kHz 400Hz, 30% Mod. 35dB μ (ANT-Eingang)	—	AM 990kHz	VR2 (X14)	STOP	
CASSETTEN-DECK-ABTEILUNG							
[1]	AZIMUTH	MTT-114 10kHz	(B)	KASSETTEN-WIEDERGABE	Kopfazimuth-schraube	Den Azimuth so einstellen, daß der linke/rechte Kanal oder FWD/RVS maximal wird.	(c)
[2]	WIEDERGABEPEGEL	MTT-150	Ein Wechselstrom-Voltmeter an TP anschließen. (X14)	KASSETTEN-WIEDERGABE	VR5 (links) VR6 (rechts) (X86)	452mV	(d)

SDK -und Dolby-Prüfstifte:

Dieses Gerät verfügt nicht über SDK -und Dolby-Prüfstifte, die normale Geräte aufweisen.

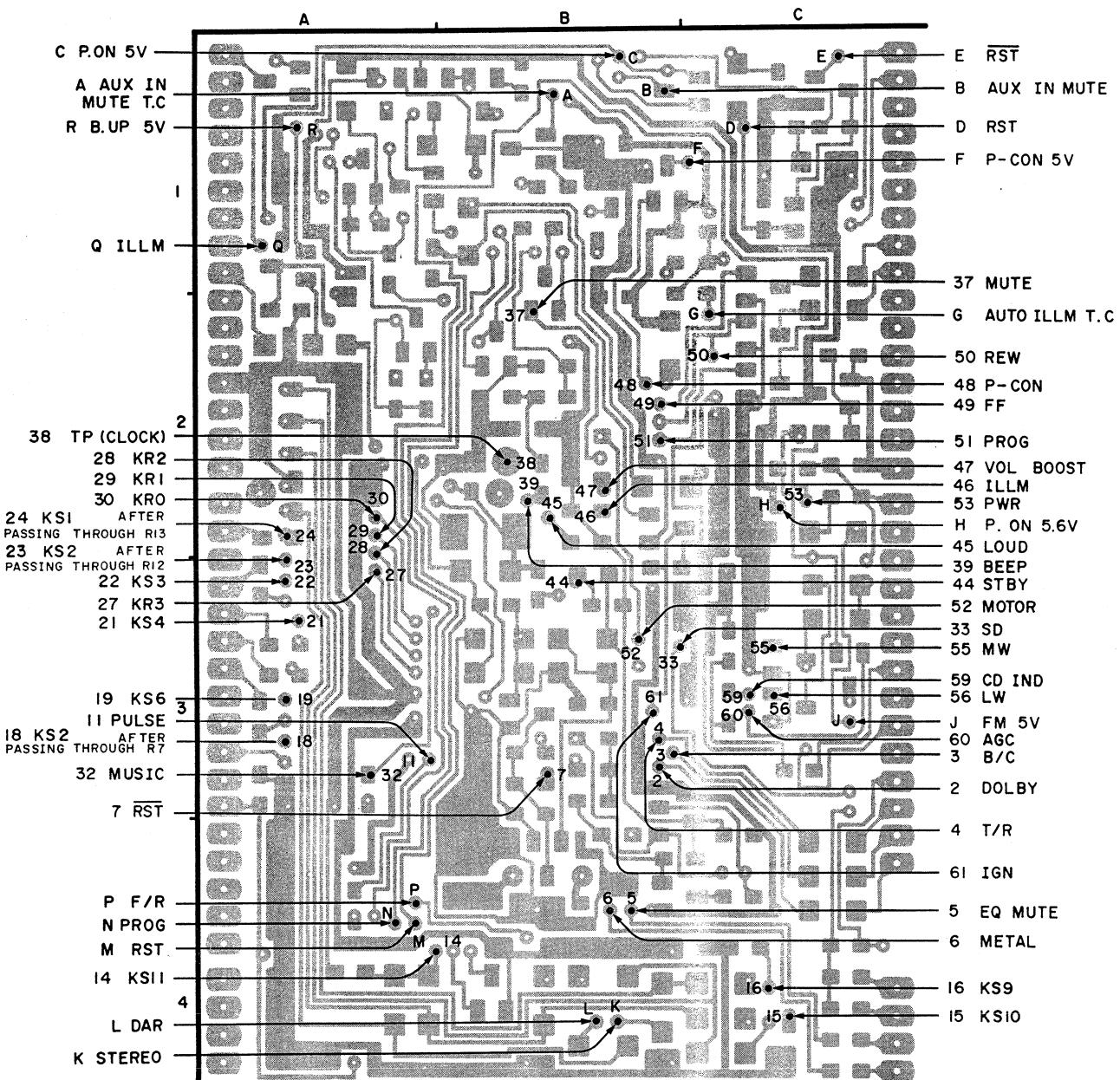
Diese beiden Einstellungen erfolgen auf der Prüf-Anschlußfläche (Muster) der Mutterplatine (durch die Öffnung in der Bodenplatte).

ADJUSTMENT/REGLAGES/ABGLEICH



KRC-989D

CHECK POINT

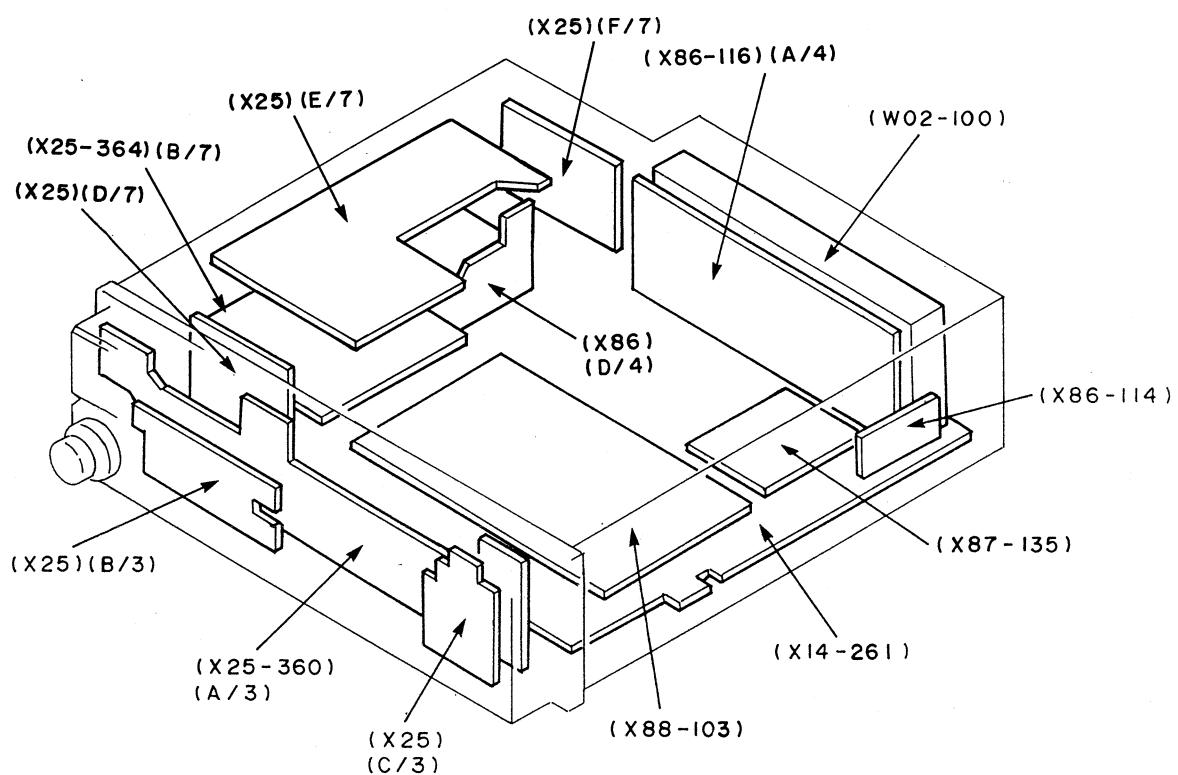


Ref./NO.	Address	Description
2	B-3	DOLBY
3	B-3	B/C
4	B-3	T/R
5	B-4	EQ MUTE
6	B-4	METAL
7	B-3	RST
11	A-3	PULSE
14	B-4	KSII
15	C-4	KS10
16	C-4	KS9
18	A-3	KS2
19	A-3	KS6
21	A-3	KS4
22	A-3	KS3

Ref./NO.	Address	Description
23	A-3	KS2
24	A-2	KS1
27	A-3	KR3
28	A-2	KR2
29	A-2	KRI
30	A-2	KRO
32	A-3	MUSIC
33	B-3	SD
37	B-2	MUTE
38	B-2	TP (CLOCK)
39	B-2	BEEP
44	B-3	STBY
46	B-2	ILLM
47	B-2	VOL. BOOST

Ref./NO.	Address	Description
48	B-2	P-CON
49	B-2	FF
50	C-2	REW
51	B-2	PROG
52	B-3	MOTOR
53	C-2	PWR
55	C-3	MW
56	C-3	LW
59	C-3	CD IND
60	C-3	AGC
A	B-1	AUX IN MUTE T.C.
B	B-1	AUX IN MUTE
C	B-1	P. ON 5V
D	C-1	RST

Ref./NO.	Address	Description
E	C-1	RST
F	C-1	P-CON 5V
G	C-2	AUTO ILLM T.C.
H	C-2	P. ON 5.6V
J	C-3	FM 5V
K	B-4	STERO
L	B-4	DAR
M	A-4	RST
N	A-4	PROG
P	A-4	F/R
Q	A-1	ILLM
R	A-1	B. UP 5V

ADJUSTMENT/REGLAGES/ABGLEICH**PC BOARD LAYOUT**

RC-989D

VOLTAGE TABLES

SYNTHESIZER UNIT (X14-2612-70)

IC1

1,2	1.5V
3	0V
4	0.5V
5	0V
6	2V
7	5V/0V
8	4V

IC2

1~11	-
12,13	4.9V
14~16	-

IC3

1	5V
2	5.6V
3	13.5V
4	-
5	FM:9V
6	FM:9V
7	9V
8	14.4V
9	4V
10	-
11	14.4V
12	0V

Q1, 12, 13, 18,
25, 27

E	0V
C	-
B	-

Q2, 3, 7

E	-
C	5V
B	-

Q-6, 14,
28~30
101, 103~105

E	-
C	-
B	-

Q8

E	AM:9V
C	-
B	LW:8.8V OTHER:0V

Q9

E	0V
C	-
B	4V

Q10

E	-
C	-
B	-

Q11

E	14.4V
C	-
B	-

Q15

E	0V
C	-
B	TAPE:3.5V OTHER:0V

Q16

E	9V
C	-
B	-

TUNER UNIT (X86-1142-70)

IC1

E	0V
C	-
B	C:3.5V

Q17

E	-
C	0V
B	-

Q19~24

E	-
C	0V
B	-

Q25, 27

E	0V
C	5V
B	-

Q26

E	-
C	5.6V
B	-

Q31

E	-
C	5.6V
B	-

FRONT-END UNIT (X86-1162-70)

IC1

E	5.6V
C	-
B	-

Q32

E	-
C	0V
B	-

Q100

E	-
C	0V
B	1V

Q102

E	-
C	0V
B	ON:13.5V

ELECTRIC UNIT (X25-3642-70)

IC2,3

E	-
C	-
B	LW:8.8V OTHER:0V

Q8

E	-
C	-
B	-

Q9

E	-
C	-
B	4V

Q10

E	-
C	-
B	-

Q11

E	-
C	-
B	14.4V

Q15

E	-
C	-
B	TAPE:3.5V OTHER:0V

Q16

E	-
C	-
B	-

E	-
C	-
B	4.1V

E	-
C	0V
B	4.1V

E	-
C	0V
B	8.3V

E	-
C	0V
B	8.3V

E	-
C	0V
B	8.3V

E	-
C	0V
B	8.3V

E	-
C	0V
B	8.3V

E	-
C	0V
B	8.3V

E	-
C	-
B	5.2V

E	-
C	-
B	4.4V

E	-
C	-
B	4.4V

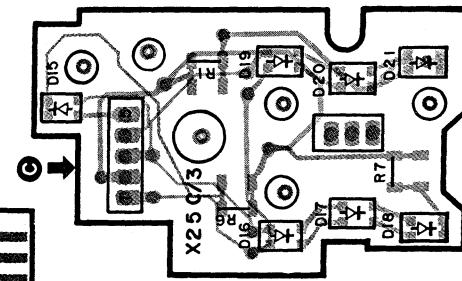
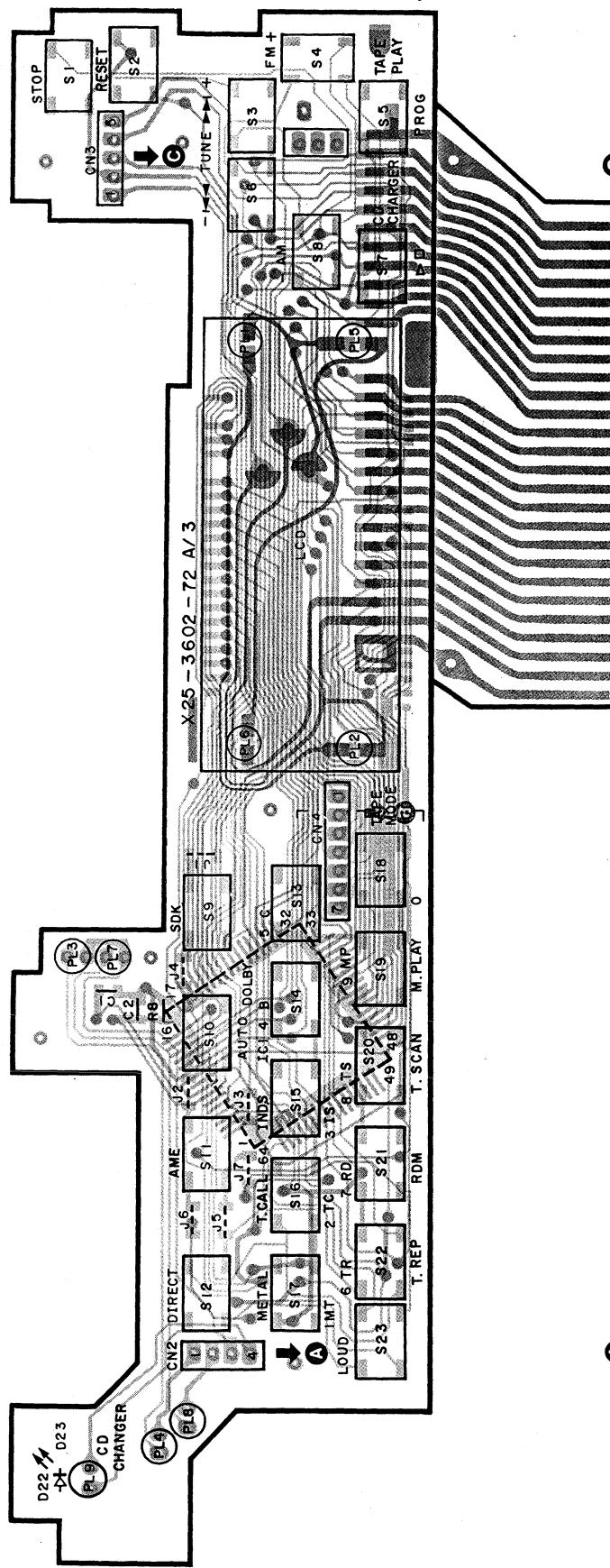
E	-
C	-
B	4.4V

E	-
C	-
B	4.4V

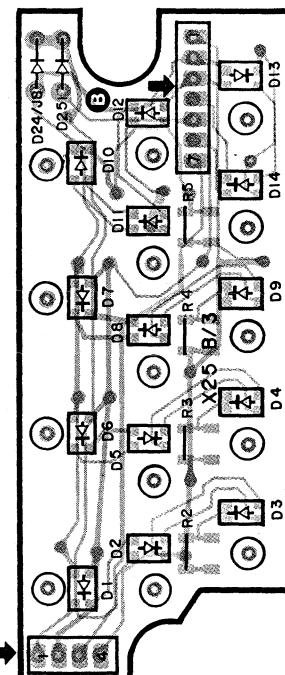
E	-

PC BOARD (Component side view) (1/2)

ELECTRIC UNIT (X25-3602-70)



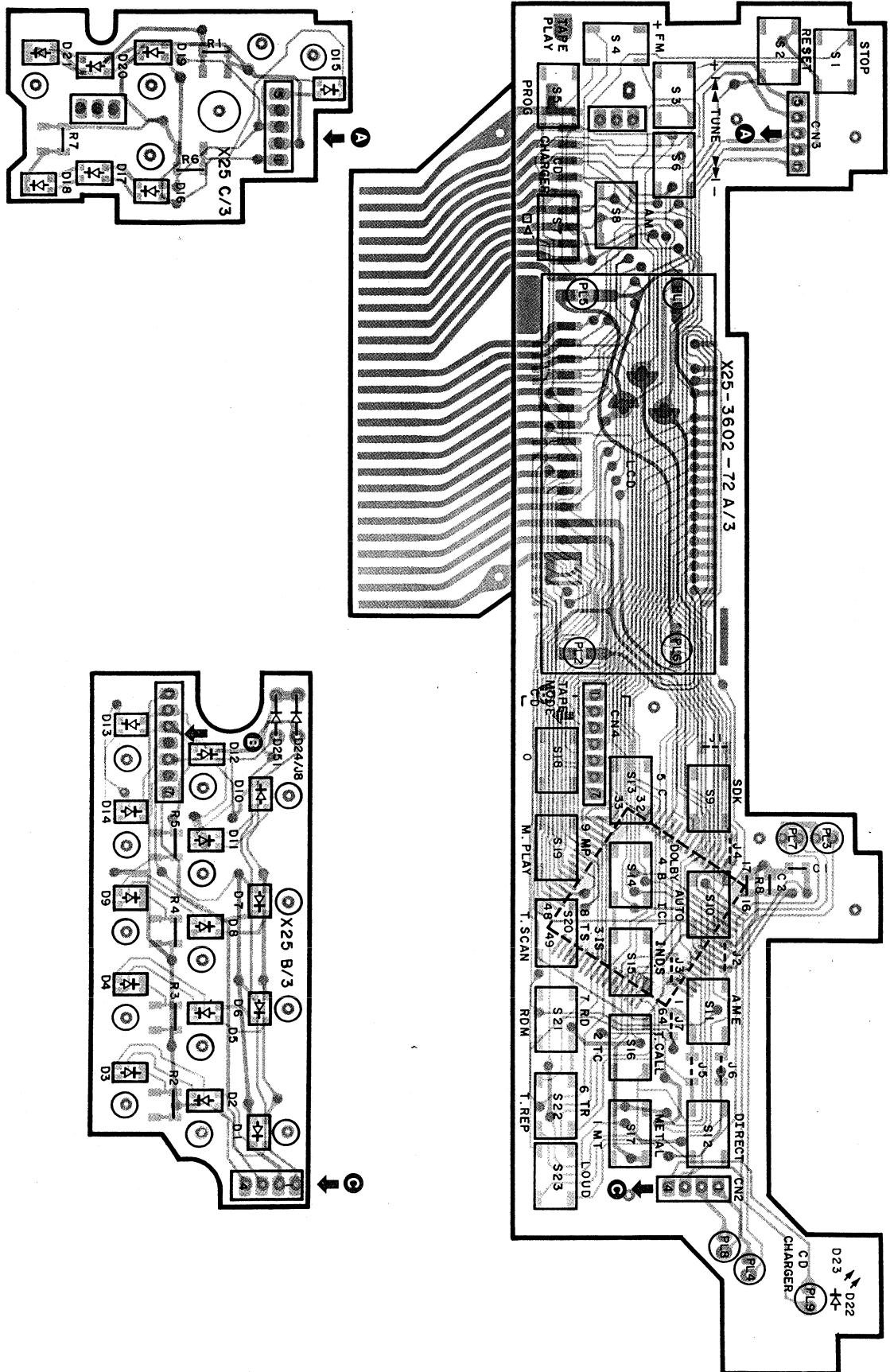
Ref. No.	Address	
IC	Q	
1		5B



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view) (1/2)

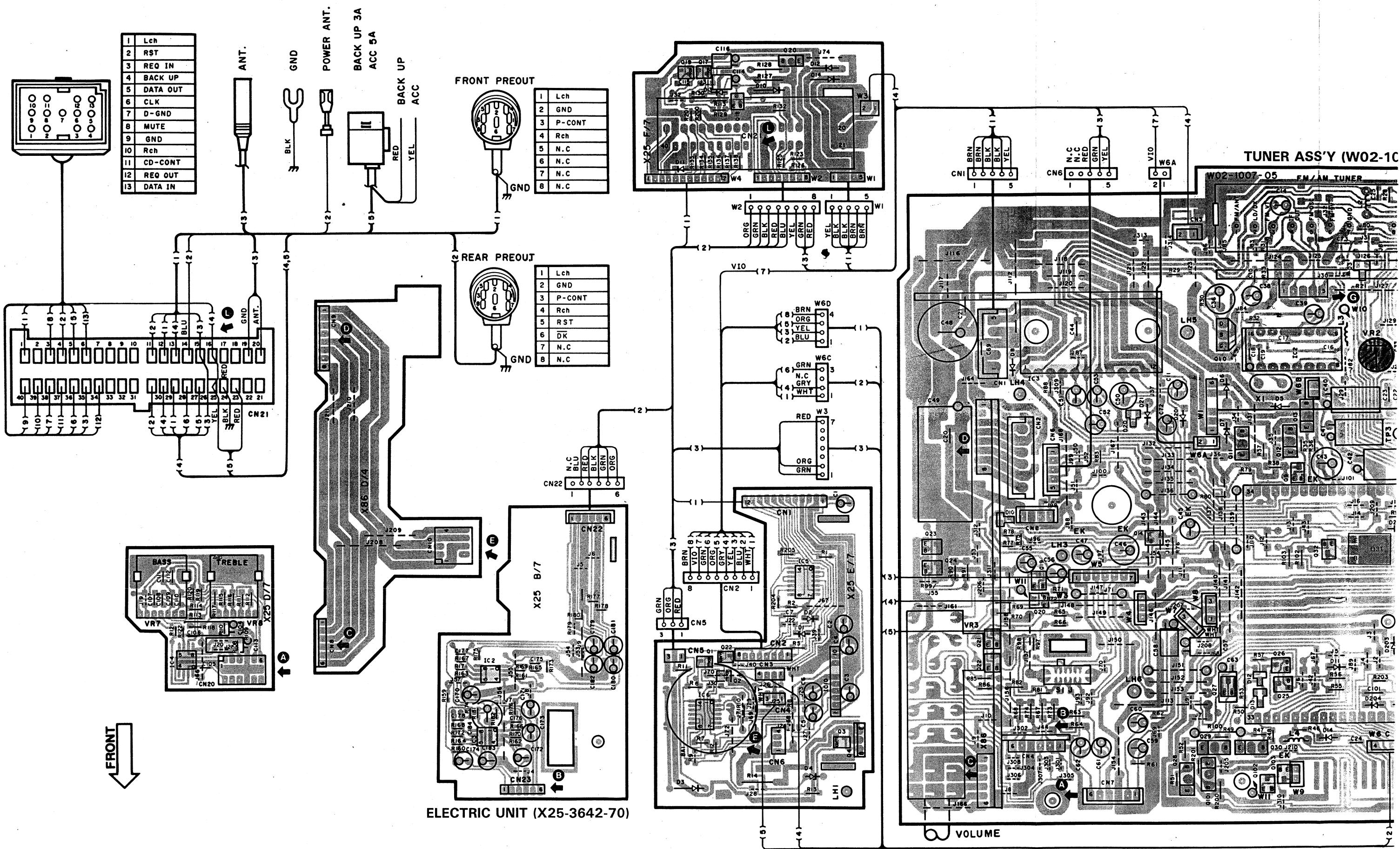
ELECTRIC UNIT (X25-3602-70)



Ref. No.	IC	Q	Address
1			5I

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) (2/2)



T

U

V

W

X

Y

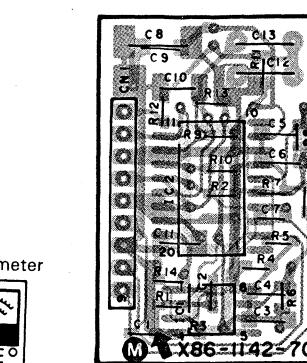
Z

AA

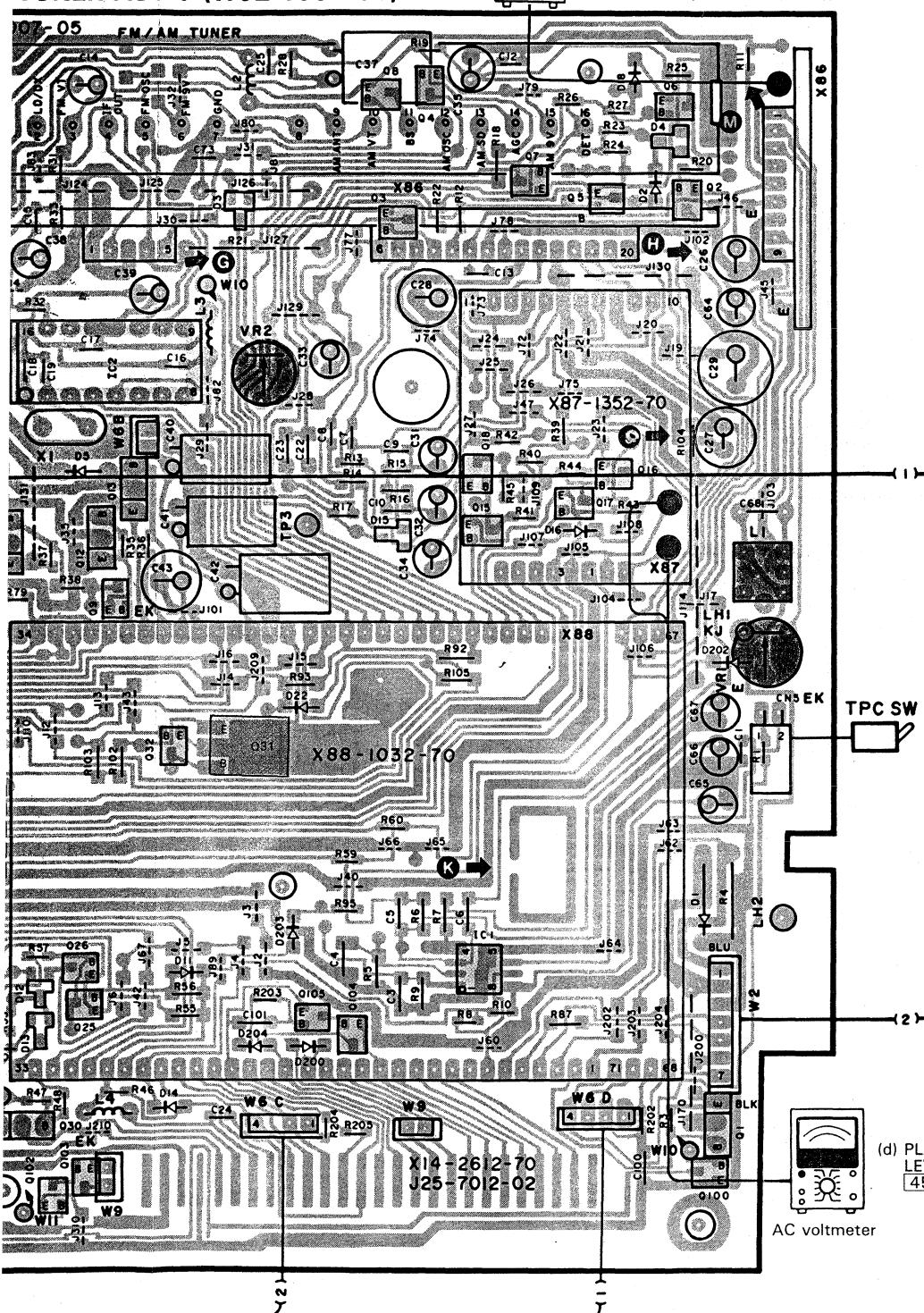
AB

AC

TUNER UNIT (X86-1142-70)



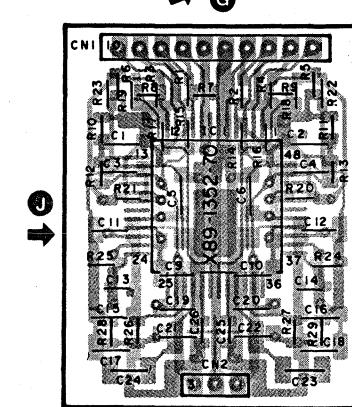
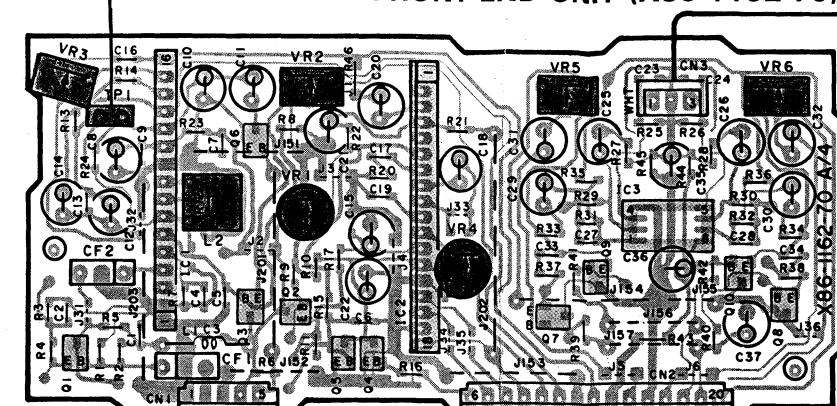
TUNER ASS'Y (W02-1007-05)



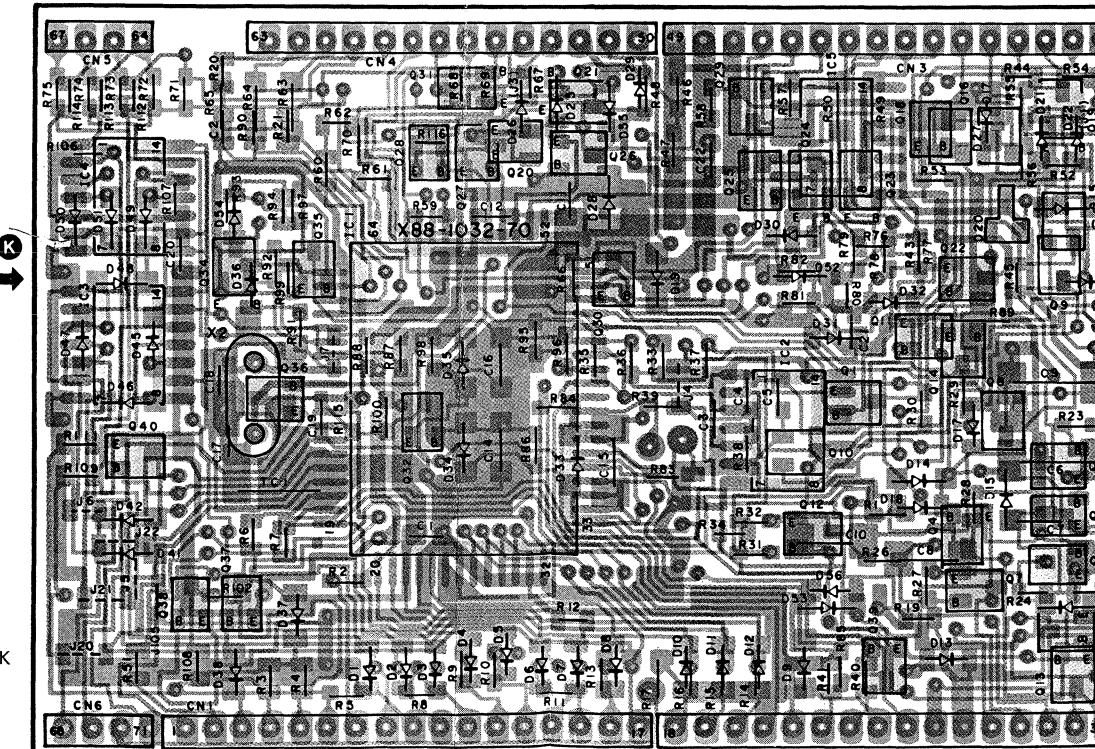
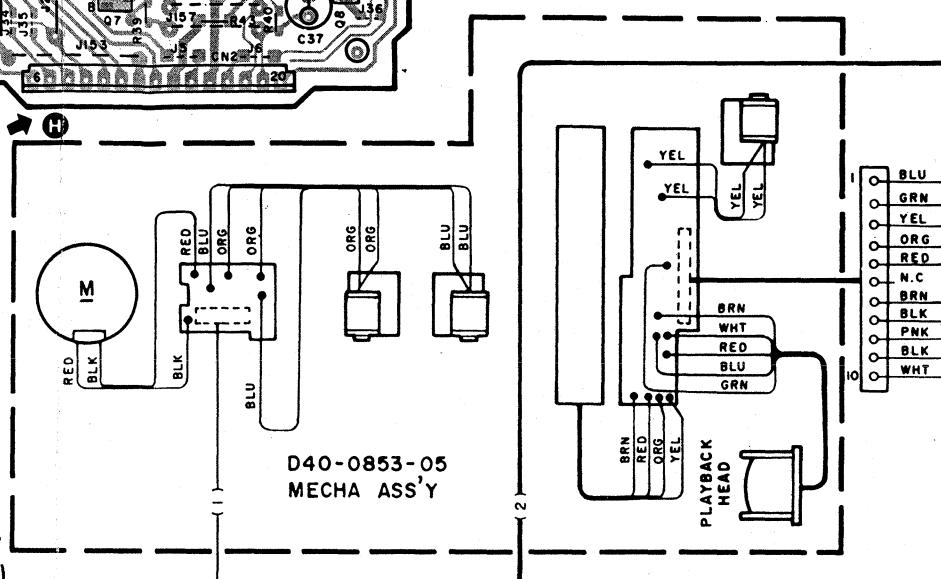
DC voltmeter

(a) DISCRIMINATOR OV

FRONT-END UNIT (X86-1162-70)



DOLBY NOISE REDUCTION UNIT (X89-1352-70)



DIGITAL I/O UNIT (X88-1032-70)

KRC-989D(E)

SYNTHESIZER UNIT (X14-2612-70)

Refer to the schematic diagram for the values of resistors and capacitors.

SYNTHESIZER UNIT (X14-2612-70)

Ref. No.	IC	Q	Address
1		6V	
2		3L	
3		3U	
4		2U	
5		3U	
6		2L	
7		3U	
8		2U	
9		6T	
10		3S	
11		4S	
12		4T	
13		4T	
14		5S	
15		4U	
16		4L	
17		4U	
18		4U	
19		5R	
20		5R	
21		6R	
22		6R	
23		5Q	
24		5Q	
25		6T	
26		6T	
27		6S	
28		6S	
29		6S	
30		6S	
31		5T	
32		6T	
100		6V	
101		6S	
102		6T	
103		6T	
104		6U	
105		6T	
1		6U	
2		3T	
3		3R	

FRONT END UNIT (X86-1162-70)

Ref. No.	IC	Q	Address
1		2W	
2		2X	
3		2X	
5		2X	
6		1X	
7		2Y	
8		2Y	
9		2Y	
10		2Y	
11		2X	
12		4T	
13		4T	
14		5S	
15		4U	
16		4L	
17		4U	
18		4U	
19		5R	
20		5R	
21		6R	
22		6R	
23		5Q	
24		5Q	
25		6T	
26		6T	
27		6S	
28		6S	
29		6S	
30		6S	
31		5T	
32		6T	
100		6V	
101		6S	
102		6T	
103		6T	
104		6U	
105		6T	
1		2W	
2		2X	
3		2X	

DOLBY NOISE REDUCTION UNIT (X87-1352-70)

Ref. No.	IC	Q	Address
1		3W	

DIGITAL I/O UNIT (X88-1032-70)

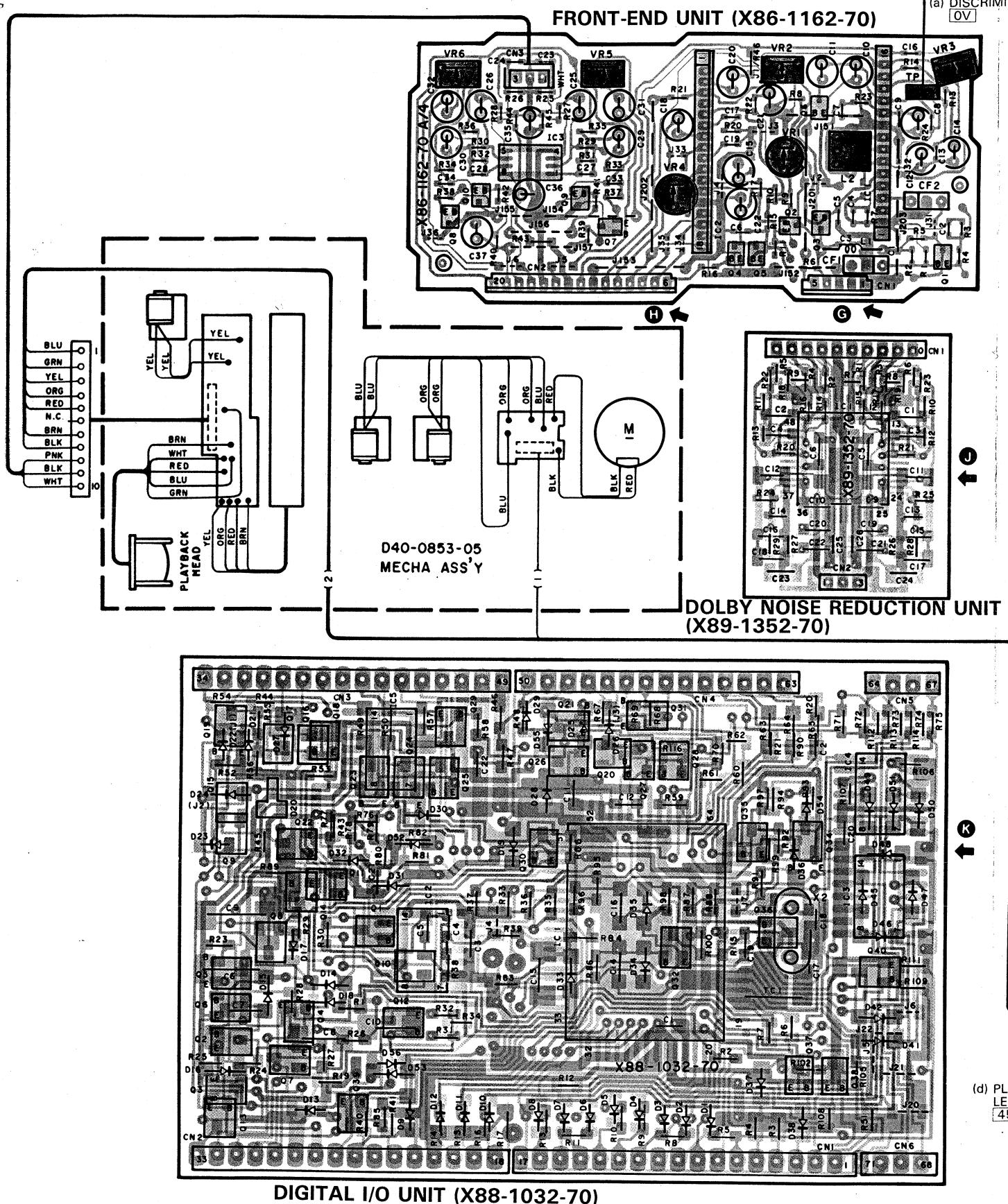
Ref. No.	IC	Q	Address
1		5Z	
2		6Z	
3		6Z	
4		6Z	
5		6Z	
6		6Z	
7		6Z	
11		5Z	
12		6Z	
14		5Z	
18		5Z	
20		5Y	
21		5Z	
22		5Z	
23		5Z	
24		5Y	
25		5Y	
26		5Y	
27		5X	
28		5X	
29		5Y	
30		5Y	
31		5X	
32		6X	
34		5X	
35		5X	
36		5X	
37		6X	
38		6X	
39		6Z	
40		6W	
1		5X	
2		6Y	
3		5W	
4		5W	
5		5Y	
6		6P	
10		6P	

TUNER UNIT (X86-1142-70)

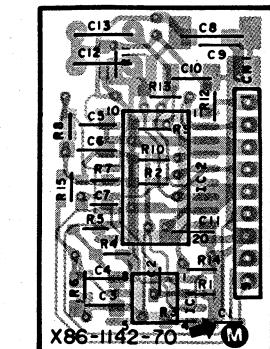
Ref. No.	IC	Q	Address
1		2V	
2		1V	

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view) (2/2)



TUNER UNIT (X86-1142-70)



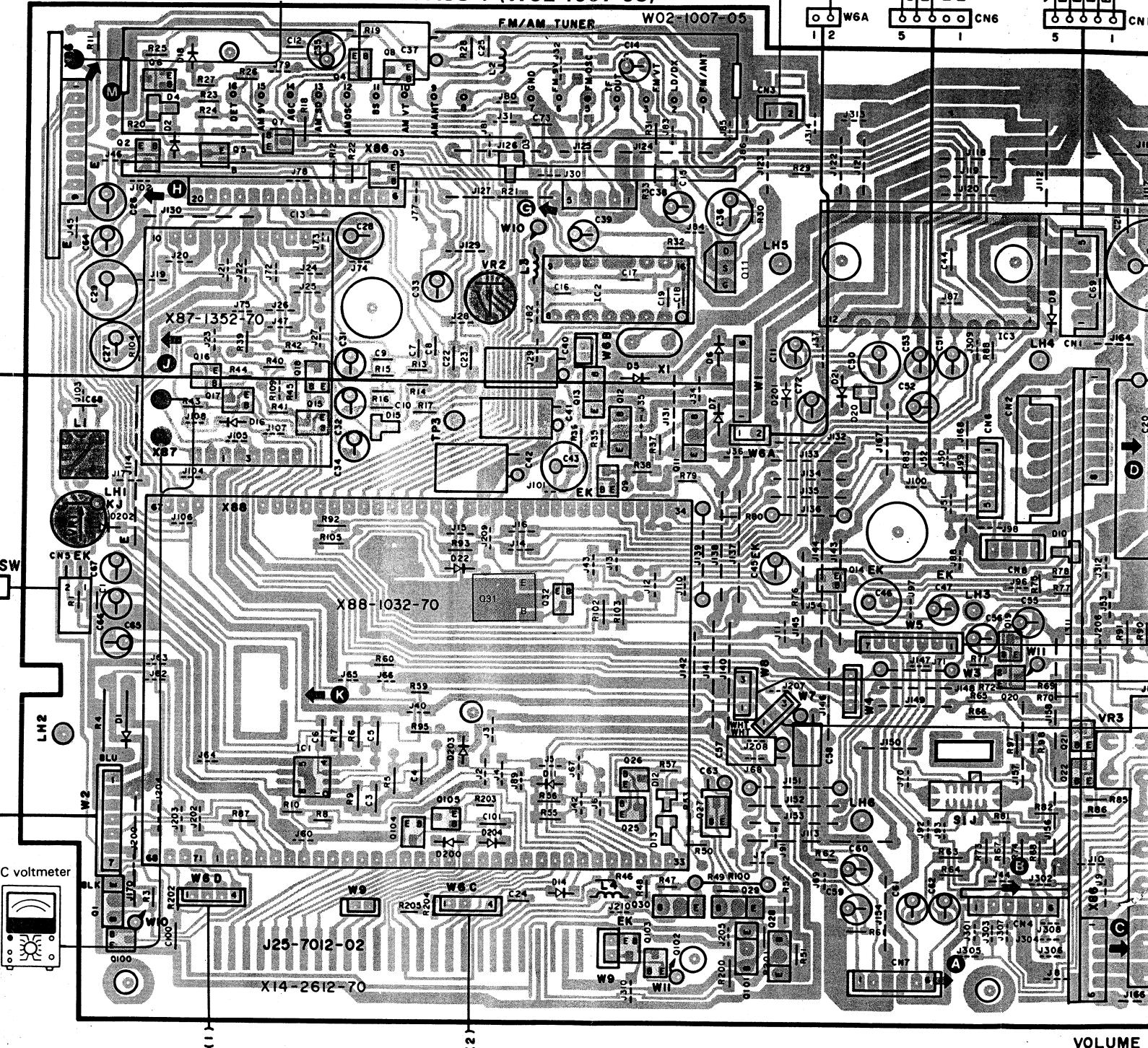
(a) DISCRIMINATO

(a) DISCRIMINATO
[]

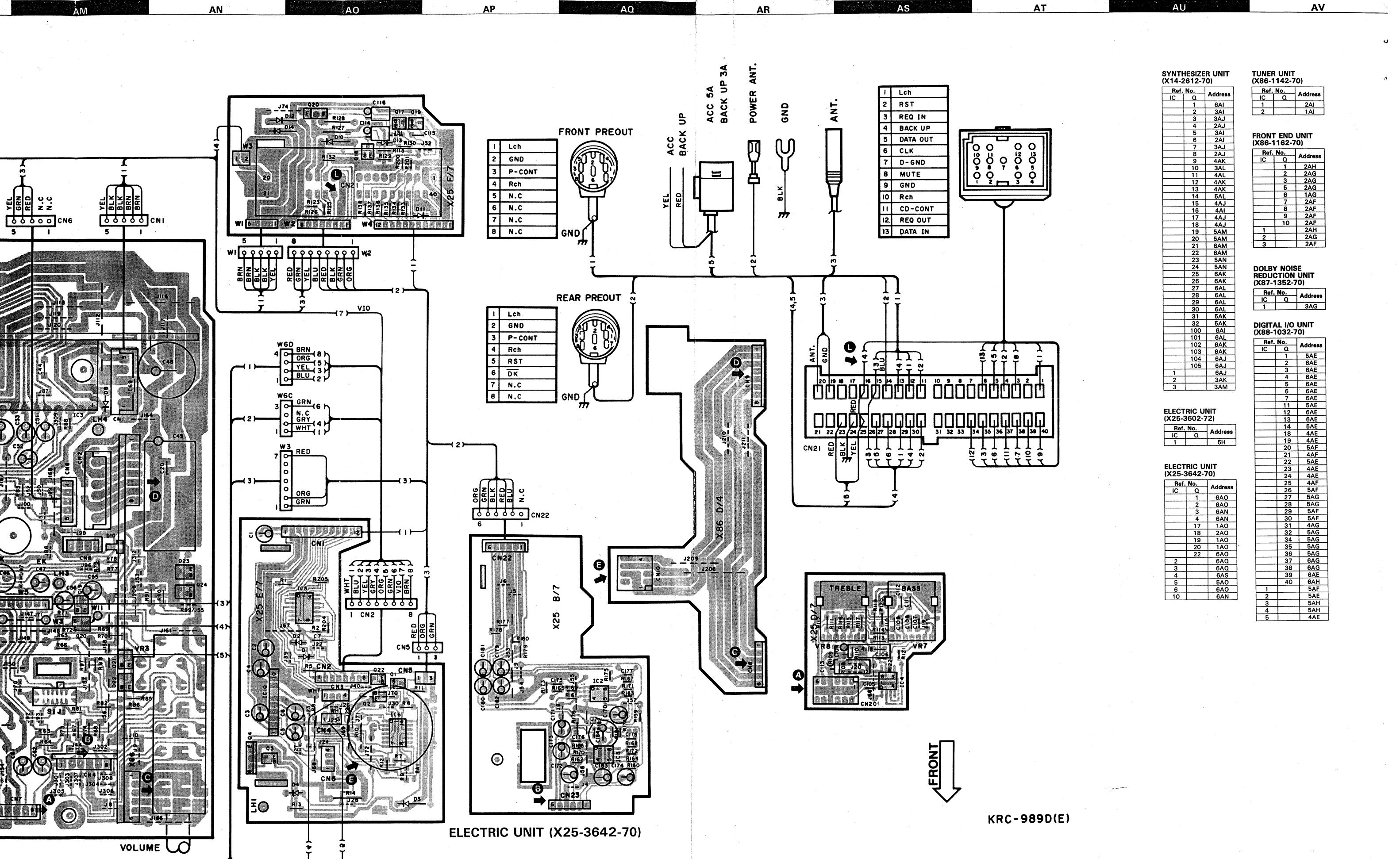
AC voltmeter

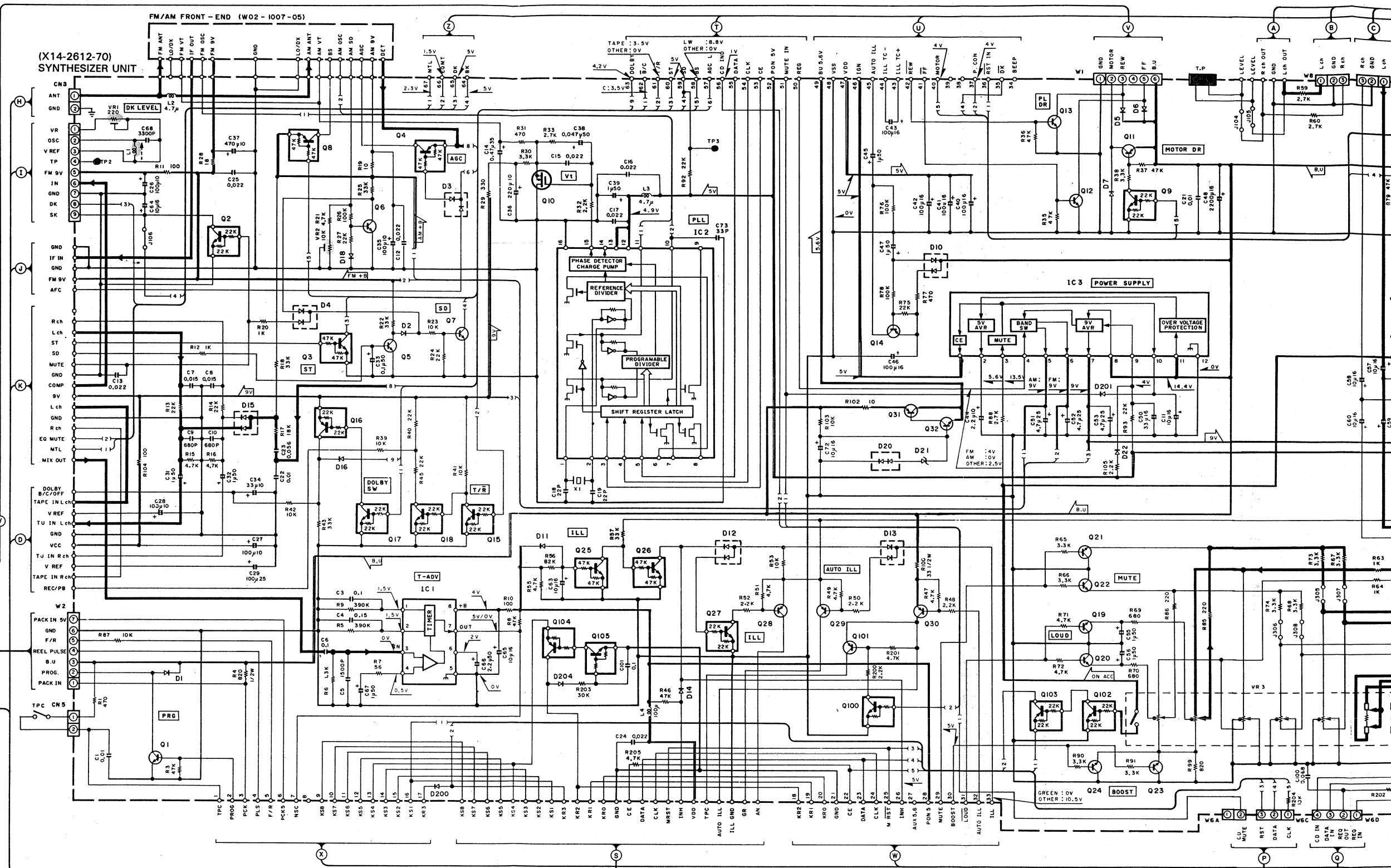
(B) DR
Max

TUNER ASS'Y (W02-1007-05)



SYNTHESIZER UNIT (X14-2612-70)





IC1	: BA3708F
IC2	: LM7001
IC3	: BA3900-VI
Q1,12,15	: 2SD1469F
Q2,9,15,17,18	: 27,100,102
	: DTC124EK
Q3,25,26	: DTC144EK
Q4,8	: DTA144EK
Q5~7,32	: 2SC2412K(S)
Q10	: 2SK669
Q11	: 2SA1428
Q14	: 2SA1037K
Q16,103,104	: DTA124EK
Q19~22	: 2SD1757K
Q28~30,101	: 2SB8822F
Q31	: 2SB1161FS
DI	: S5566B
D2,11,14,16,18	: RLS-73
D3,4,13	: DAN202K
D5 ~ 8	: ERA15 - O1Y1
D10,20	: DA204K
D12,15	: DAP202K
D21	: RDS.1JS(82)
D22	: DLS1585 or RLS-7

MECHA. ASS'Y
(D40-0853-C)

1

3

BA3900-V

2SB1181F5

DTC143TK
2SA1428
2SB822F
2SD1469F

DTA114EK
DTA124EK
DTA144EK
DTC124EK

01

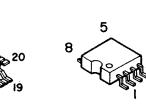
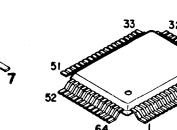
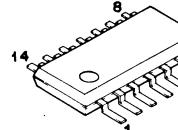
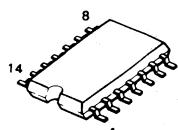
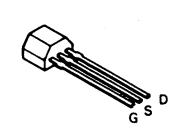
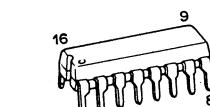
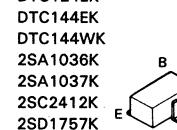
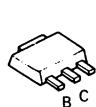
2SK669

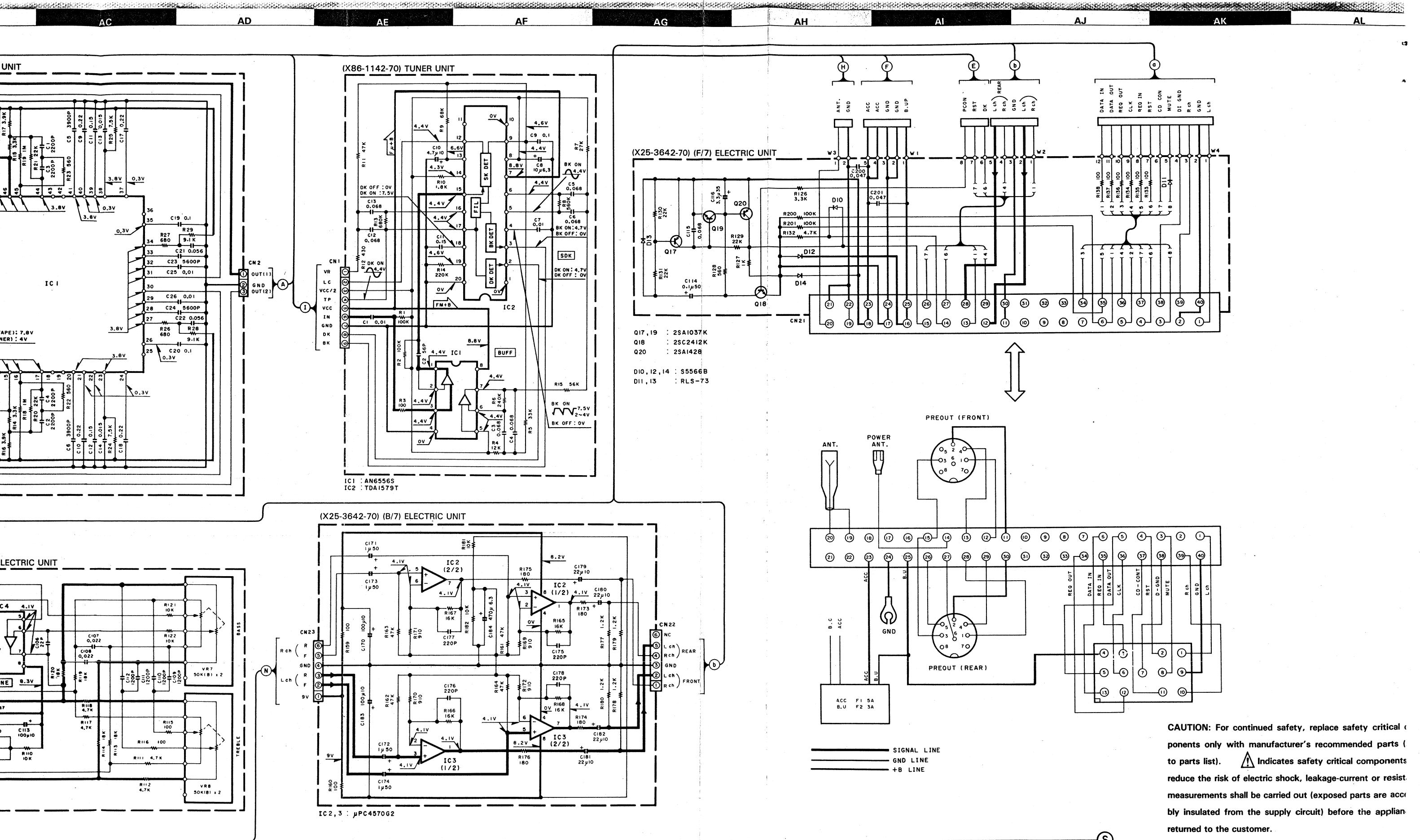
TC4C

-001BF
-069UBF
081BF

75108

68-1B BA370





DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KRC-989D (E)(2/3)

KRC-989D
KENWOOD

Y36-1170-51

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** **Indicates safety critical components reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are accessible insulated from the supply circuit) before the appliance is returned to the customer.**

S

AM

AN

AO

AP

AQ

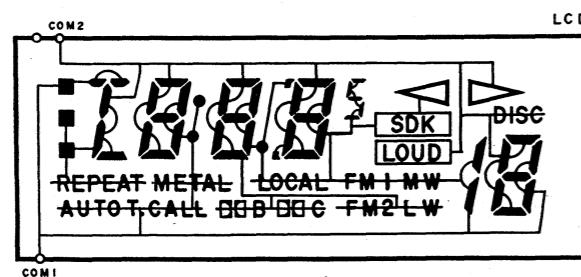
AR

AS

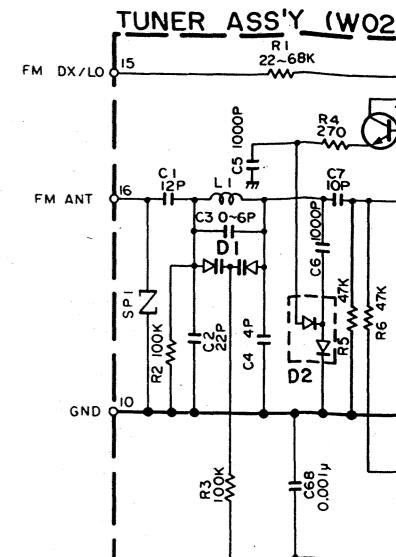
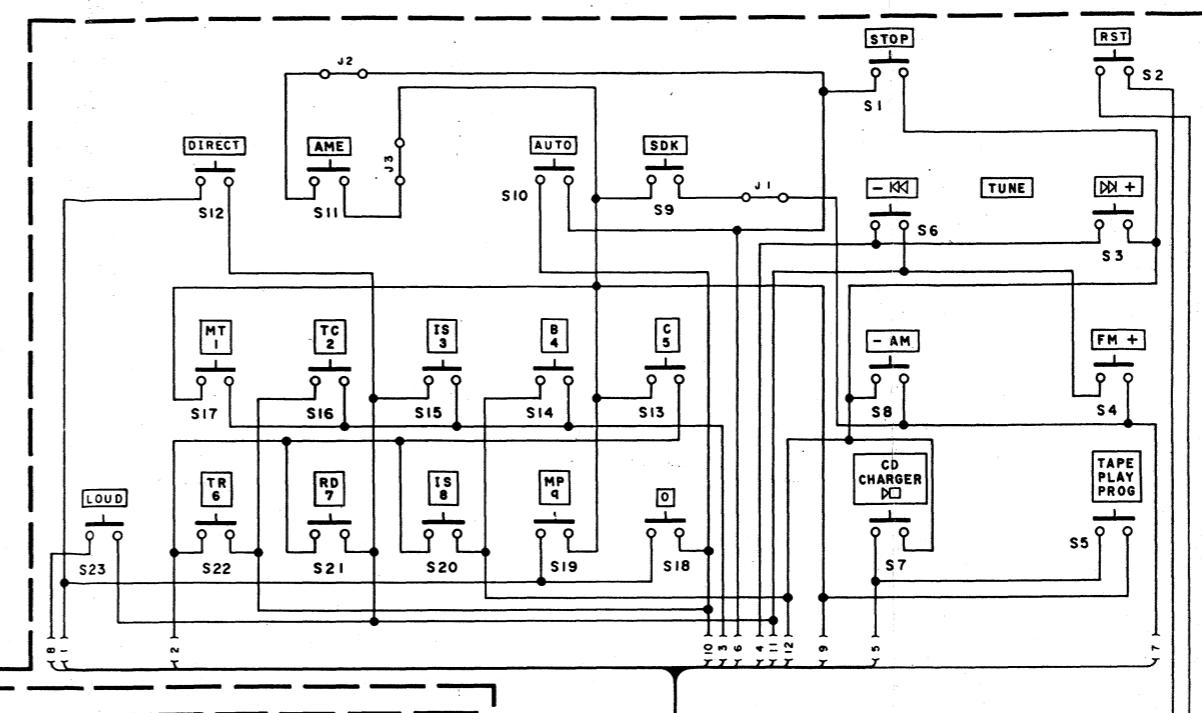
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AU

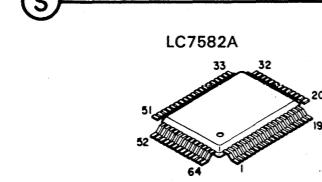
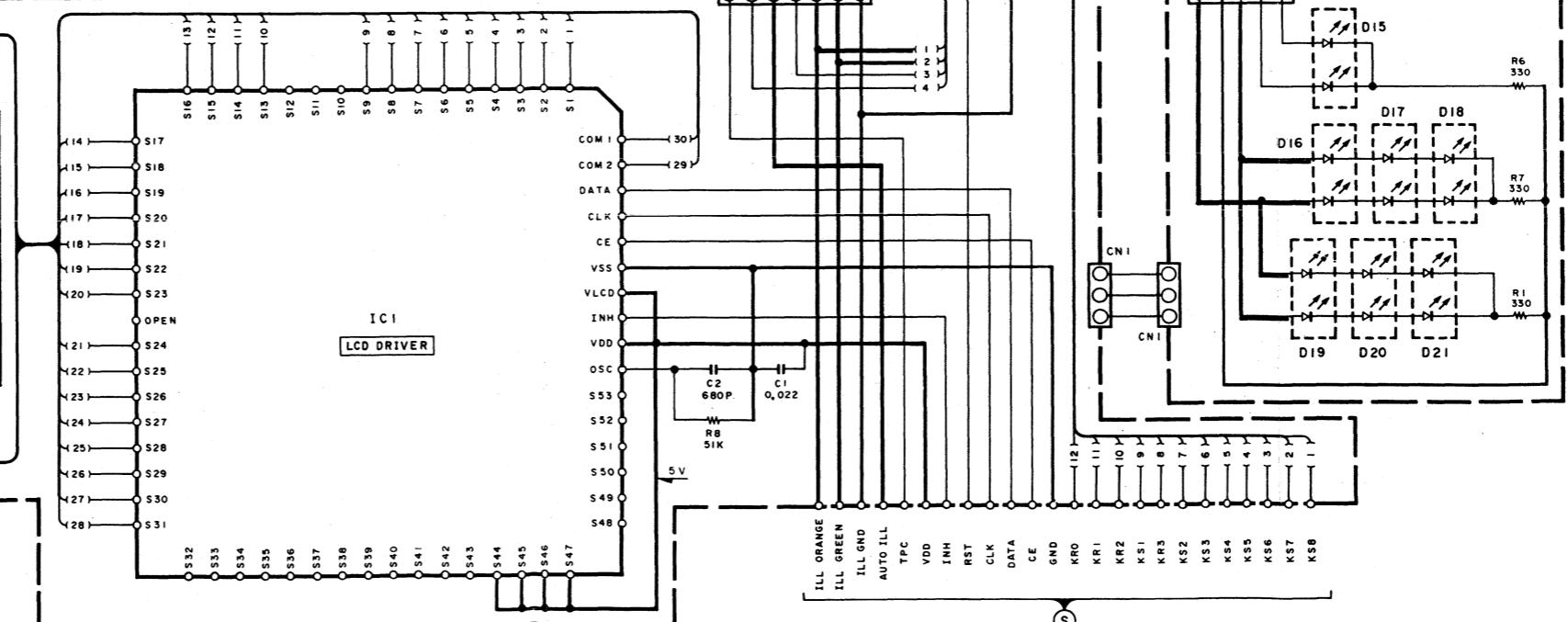
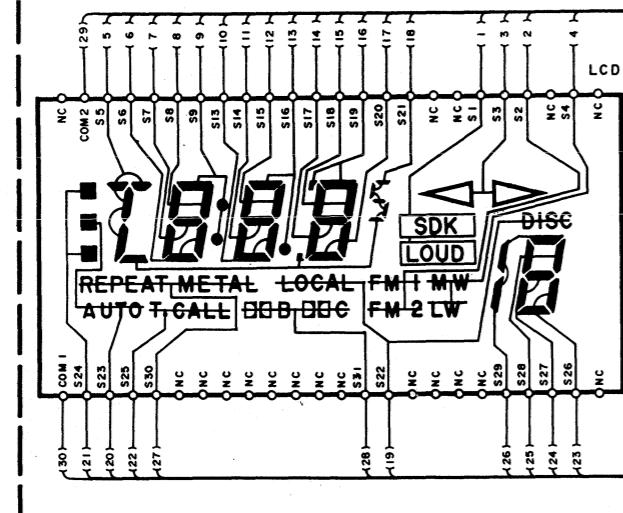
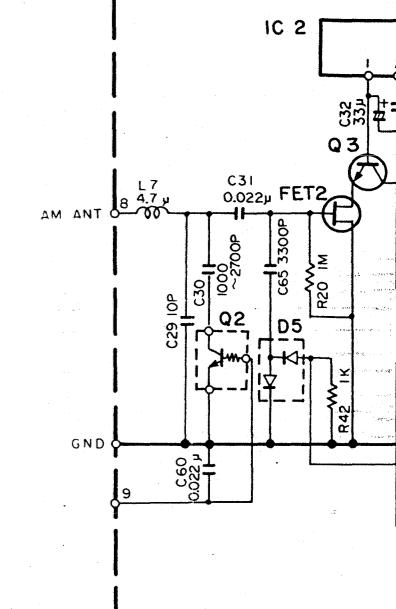
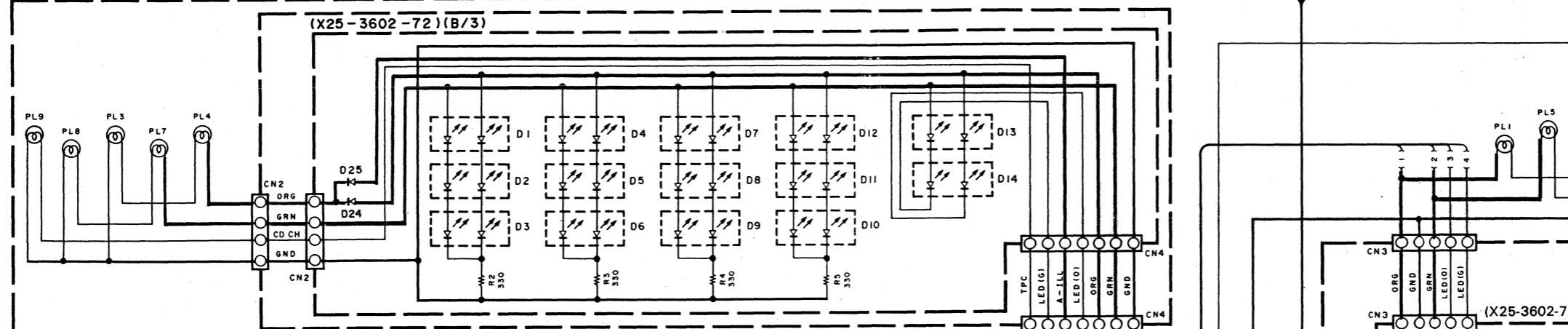
AV



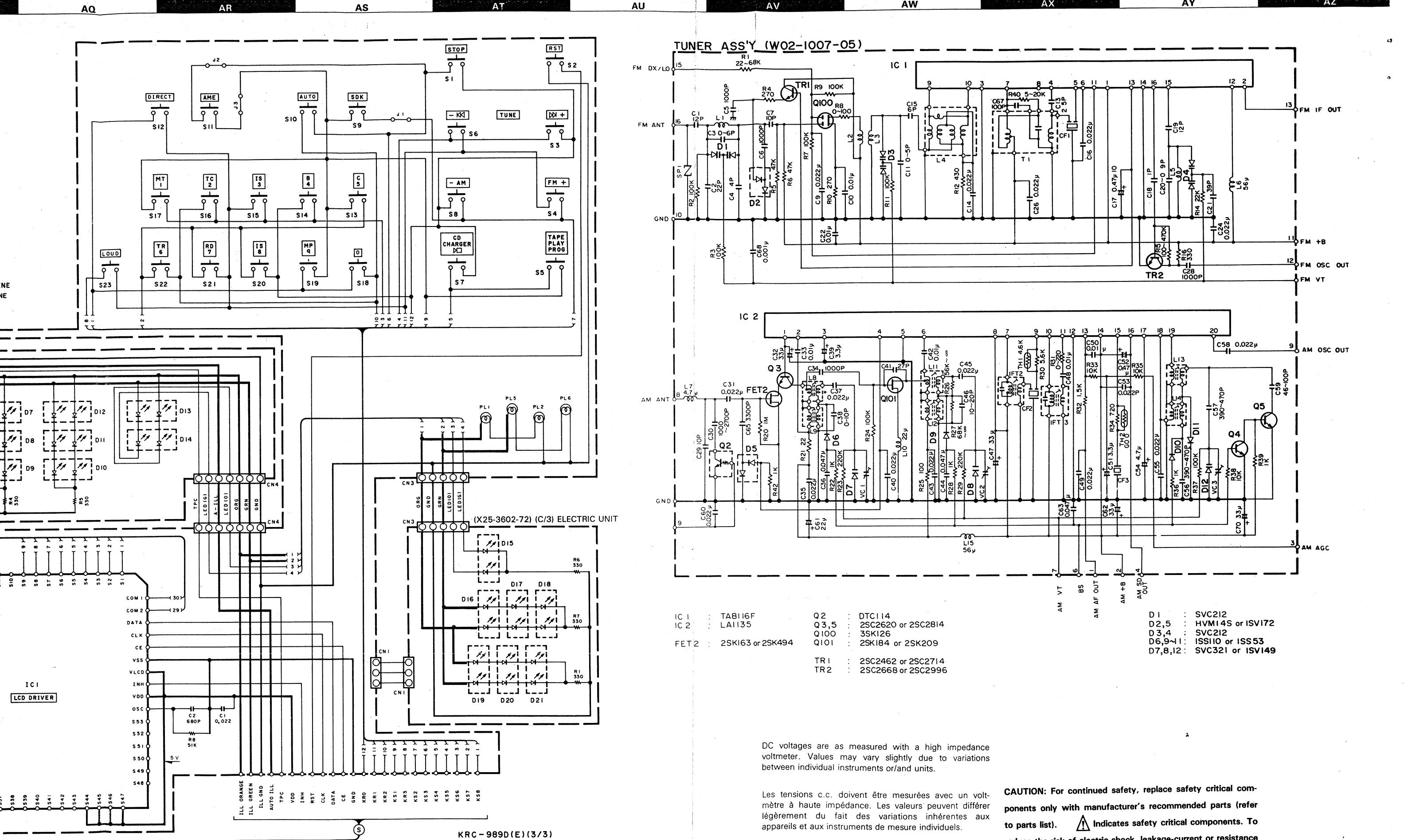
(X25-3602-72)
D1~21 : B30-1208-05
D24,25 : ERA15-01Y1
ICI : LC7582A
LCD : B38-0504-05
PL1~4 : B30-1187-05
PL5~8 : B30-1204-05
PL9 : B30-1307-05



(X25-3602-72) (A/3) ELECTRIC UNIT



Die ange einem h...
Dabei sch... schieden
Geräten u...



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

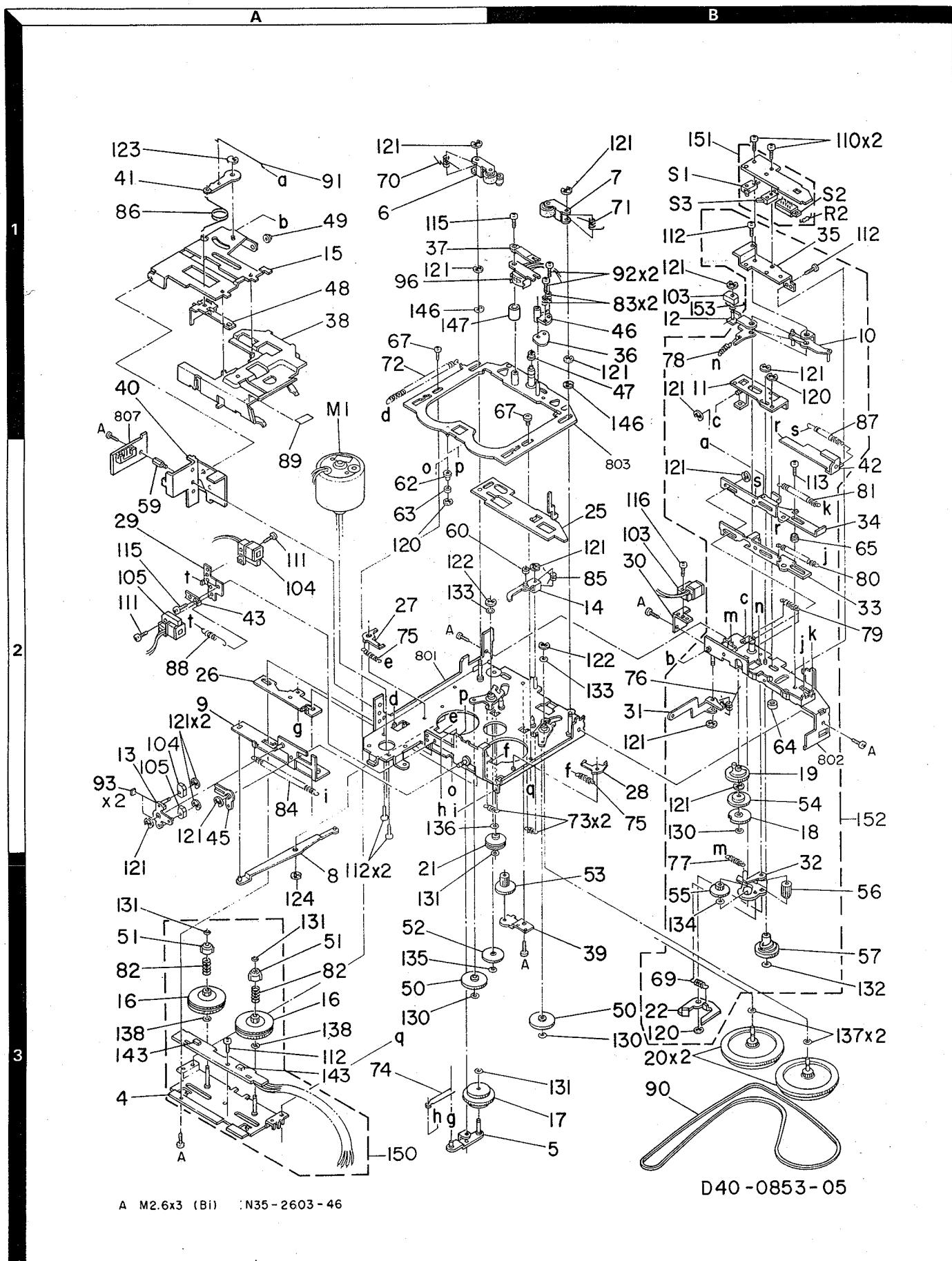
KRC-989

KENWOOD

Y36-1170-51

KRC-989D

EXPLODED VIEW (MECHANISM)



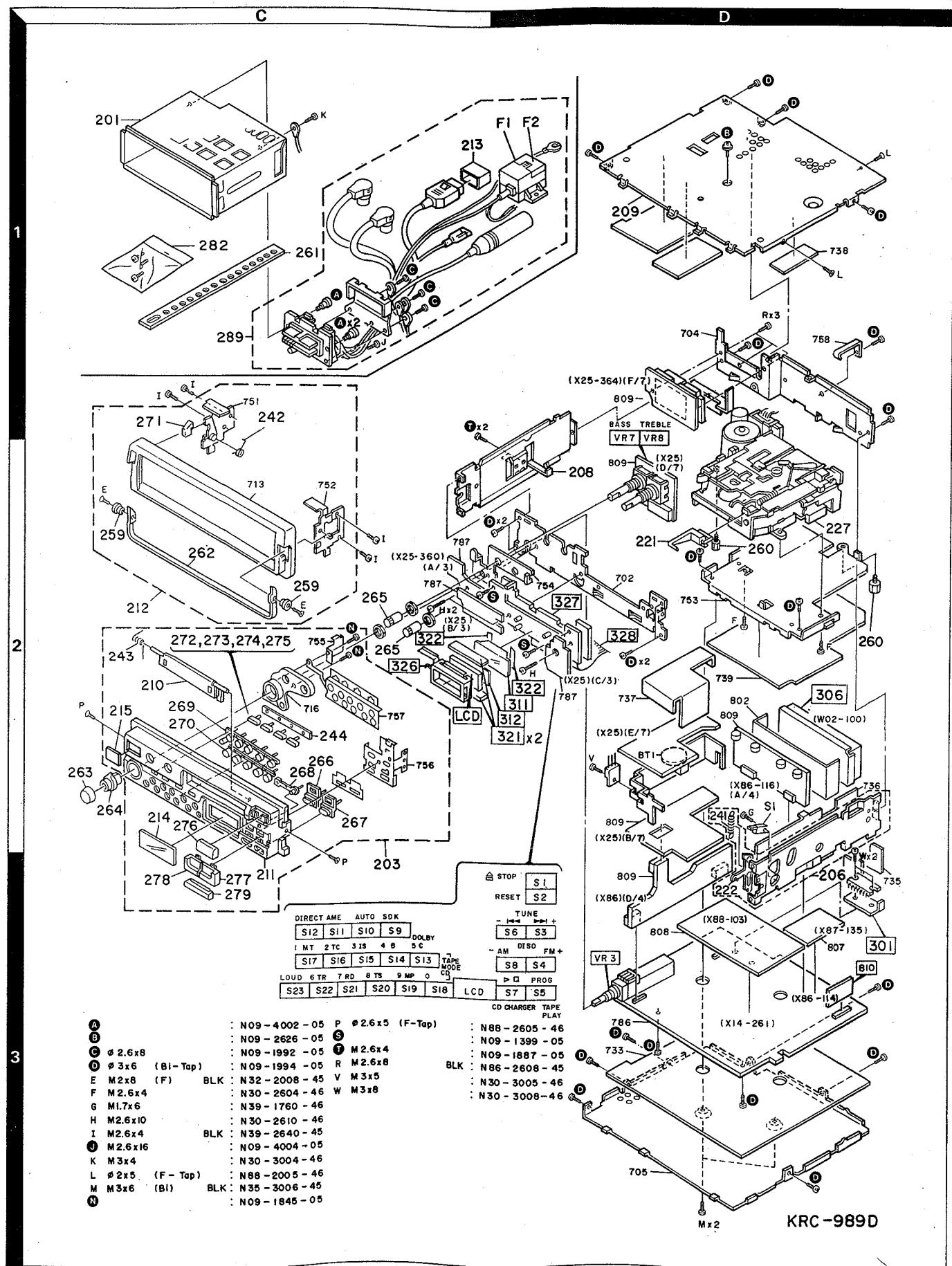
A M2.6x3 (Bi) : N35 - 2603 - 46

D40 - 0853 - 05

Parts with the exploded numbers larger than 700 are not supplied.

KRC-989D

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-989D

PARTS LIST

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KRC-989D						
201	1C	*	A01-1777-01	METALLIC CABINET		
203	2C	*	A20-7501-12	PANEL ASSY		
206	3D		A50-0313-13	SIDE PLATE ASSY		
208	2D	*	A50-0318-13	SIDE PLATE		
209	1D	*	A52-0137-12	TOP COVER		
210	2C		A53-1088-03	CASSETTE LID		
212	2C	*	B07-1878-42	ESCUTCHEON ASSY		
213	1C	*	B09-0062-05	CAP		
214	2C	*	B10-1302-03	FRONT GLASS (LCD)		
215	2C	*	B10-1024-04	FRONT GLASS (CD-IND)		
-			B46-0100-10	WARRANTY CARD		
-			B46-0182-04	ID CARD	E	
-		*	B50-9746-00	INSTRUCTION MANUAL		
-		*	B50-9981-00	INSTRUCTION MANUAL		
-			B58-0803-13	CAUTION CARD		
-			B58-0871-04	CAUTION CARD		
-			B58-0883-04	CAUTION CARD		
221	2D		D10-2168-24	LEVER		
222	3D		D10-2305-04	LEVER		
227	2D		D40-0853-05	CASSETTE MECHANISM ASSY		
F1	1D		F06-5024-05	FUSE (5A) ACC		
F2	1D		F06-3026-05	FUSE (3A) BACKUP		
241	2D		G01-2040-04	EXTENSION SPRING		
242	1C		G01-2370-04	TORSION COIL SPRING		
243	2C		G01-2371-04	TORSION COIL SPRING		
244	2C		G11-1350-04	CUSHION		
-		*	H01-9002-04	ITEM CARTON CASE		
-			H10-3777-13	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0336-04	PROTECTION BAG (170X250X0.03)		
259	2C		J31-0826-04	COLLAR		
260	2D	*	J32-1001-04	BOSS		
261	1C		J54-0059-04	STAY		
262	2C		K01-0085-13	HANDLE		
263	2C		K23-0403-13	KNOB (VOL)		
264	2C		K23-0404-14	KNOB (FAD)		
265	2C	*	K23-0405-04	KNOB (TONE)		
266	2C	*	K24-0501-04	KNOB (CD)		
267	2C	*	K24-0502-04	KNOB (TAPE)		
268	2C	*	K24-0069-04	KNOB (RESET)		
269	2C	*	K25-0501-03	KNOB (1-5)		
270	2C	*	K25-0502-03	KNOB (6-0)		
271	1C		K27-1964-04	KNOB (BUTTON)		
272	2C		K29-3562-04	KNOB (DIRECT)		
273	2C	*	K29-5502-04	KNOB (LO/AMB)		
274	2C		K29-3564-04	KNOB (AUTO)		
275	2C		K29-3565-04	KNOB (SDK)		
276	3C	*	K29-5503-04	KNOB (EJECT)		
277	3C		K29-3570-14	KNOB (DOWN)		
278	3C		K29-3569-14	KNOB (UP)		
279	3C	*	K29-5506-04	KNOB (FM/AM)		

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282 A B C D	1C 1C 1D 1C 2D	*	N99-0280-05 N09-4002-05 N09-2626-05 N09-1992-05 N09-1994-05	SCREW SET STEPPED SCREW (M2.6X3) STEPPED SCREW EVATITE SCREW (2.6X8, +, P) TAPTITE SCREW (3X6, +)		
E F G H I	2C 2D 2D 2D 2C		N32-2008-45 N30-2604-46 N39-1760-46 N30-2610-46 N39-2640-45	FLAT HEAD MACHINE SCREW PAN HEAD MACHINE SCREW PAN HEAD MACHINE SCREW PAN HEAD MACHINE SCREW PAN HEAD MACHINE SCREW		
J K L M N	1C 1C 1D 3D 2C	*	N09-4004-05 N30-3004-46 N88-2005-46 N35-3006-45 N09-1845-05	STEPPED SCREW (M2.6X16) PAN HEAD MACHINE SCREW FLAT HEAD TAPTITE SCREW BINDING HEAD MACHINE SCREW TAPTITE SCREW		
P R T	2C 1D 1C	*	N88-2605-46 N86-2608-45 N09-1887-05	FLAT HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW TAPTITE SCREW		
S1	2D		S46-1076-05	LEAF SWITCH		
289 BT1	1C 2D	*	W09-0701-04 W09-0625-05	DETACHBLE CONNECTOR BATTERY		

SYNTHESIZER UNIT (X14-2612-70)

C1		CK73FB1H103K	CHIP C	0.010UF	K	
C3		CK73EB1E104K	CHIP C	0.10UF	K	
C4		CK73DB1H154K	CHIP C	0.15UF	K	
C5		CK73EB1H152K	CHIP C	1500PF	K	
C6		CK73EB1E104K	CHIP C	0.10UF	K	
C7 ,8		CK73FB1H153K	CHIP C	0.015UF	K	
C9 ,10		CK73FB1H681K	CHIP C	680PF	K	
C11		CE04NW1C100M	ELECTRO	10UF	16WV	
C12 ,13		CK73FB1H223K	CHIP C	0.022UF	K	
C14		CS15E1VR47M	TANTAL	0.47UF	35WV	
C15 -17		CK73FB1H223K	CHIP C	0.022UF	K	
C18 ,19		CC73FCH1H220J	CHIP C	22PF	J	
C20 -22		CK73EB1H103K	CHIP C	0.010UF	K	
C23		CK73EB1H683K	CHIP C	0.068UF	K	
C24 ,25		CK73FB1H223K	CHIP C	0.022UF	K	
C26		CE04DW1A101M	ELECTRO	100UF	10WV	
C27 ,28		CE04MW1A101M	ELECTRO	100UF	10WV	
C29	*	CE04MW1E101M	ELECTRO	100UF	25WV	
C31 ,32		CE04MW1H010M	ELECTRO	1.0UF	50WV	
C33		CE04NW1H0R1M	ELECTRO	0.1UF	50WV	
C34		CE04NW1C100M	ELECTRO	10UF	16WV	
C35		CE04MW1A101M	ELECTRO	100UF	10WV	
C36		CE04NW1A221M	ELECTRO	220UF	10WV	
C37		CE04DW1A471M	ELECTRO	470UF	10WV	
C38		CE04NW1H2R2M	ELECTRO	2.2UF	50WV	
C39		CE04NW1H010M	ELECTRO	1.0UF	50WV	
C40 -42		C90-1263-05	ELECTRO	100UF	16WV	
C43		CE04NW1C101M	ELECTRO	100UF	16WV	
C44		C92-0005-05	CHIP-TAN	2.2UF	6.3WV	
C45		CE04NW1H010M	ELECTRO	1.0UF	50WV	
C46		CE04NW1C101M	ELECTRO	100UF	16WV	

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KRC-989D

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C47			CE04NW1H010M	ELECTRO	1.0UF	50WV		
C48 , 49			C90-1404-05	ELECTRO	2200UF	16WV		
C50			CE04NW1C330M	ELECTRO	33UF	16WV		
C51 -53			CE04MW1E4R7M	ELECTRO	4.7UF	25WV		
C55 , 56			CE04NW1H010M	ELECTRO	1.0UF	50WV		
C57 , 58			CE04MW1C100M	ELECTRO	10UF	16WV		
C59 -62			CE04MW1C100M	ELECTRO	10UF	16WV		
C63			CE04NW1C100M	ELECTRO	10UF	16WV		
C64 , 65			CE04NW1C100M	ELECTRO	10UF	16WV		
C66			CE04NW1H2R2M	ELECTRO	2.2UF	50WV		
C67			CE04NW1H010M	ELECTRO	1.0UF	50WV		
C68			CQ93AP2A332J	POLYPRO	3300PF	J		
C69			CK73EB1H473K	CHIP C	0.047UF	K		
C72			CE04NW1C100M	ELECTRO	10UF	16WV		
C73			CC73FCH1H330J	CHIP C	33PF	J		
C100			CK73EB1H683K	CHIP C	0.068UF	K		
C101			CK73EB1E104K	CHIP C	0.10UF	K		
301	3D		F02-0065-13	HEAT SINK				
LH4		*	J19-4316-05	HOLDER				
L1			L39-0156-05	TRAP COIL				
L2 , 3			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)				
L4			L40-1011-17	SMALL FIXED INDUCTOR				
X1			L77-1166-05	CRYSTAL RESONATOR				
X2			L77-1167-05	CRYSTAL RESONATOR				
W	3D		N30-3008-46	PAN HEAD MACHINE SCREW				
J2 -17			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J19 -32			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J34 -37			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J40			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J42 , 43			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J45 , 46			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J53 , 54			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J60			R92-0670-05	CHIP R	0	0ΩHM		
J62 -69			R92-0670-05	CHIP R	0	0ΩHM		
J72 -75			R92-0670-05	CHIP R	0	0ΩHM		
J77 -88			R92-0670-05	CHIP R	0	0ΩHM		
J91			R92-0670-05	CHIP R	0	0ΩHM		
J96 , 97			R92-0670-05	CHIP R	0	0ΩHM		
J99			R92-0670-05	CHIP R	0	0ΩHM		
J101-106			R92-0670-05	CHIP R	0	0ΩHM		
J181			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J200			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J202-204			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J205			R92-0670-05	CHIP R	0	0ΩHM		
J209			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J210			R92-0670-05	CHIP R	0	0ΩHM		
J305-309			R92-0670-05	CHIP R	0	0ΩHM		
J310, 311			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J312			R92-0670-05	CHIP R	0	0ΩHM		
J313			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J315			R92-0338-05	CLYNND CHIP R	0	0ΩHM		
J316			R92-0670-05	CHIP R	0	0ΩHM		

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R1			RK73FB2A471J	CHIP R 470	J 1/10W	
R3			RK73FB2A473J	CHIP R 47K	J 1/10W	
R4			RD14DB2H821J	SMALL-RD 820	J 1/2W	
R5			RD41DB2B394J	CYLND CHIP R 390K	J 1/8W	
R6			RD41DB2B132J	CYLND CHIP R 1.3K	J 1/8W	
R7			RD41DB2B560J	CYLND CHIP R 56	J 1/8W	
R8			RK73FB2A473J	CHIP R 47K	J 1/10W	
R9			RD41DB2B394J	CYLND CHIP R 390K	J 1/8W	
R10 , 11			RK73FB2A101J	CHIP R 100	J 1/10W	
R12			RK73FB2A102J	CHIP R 1.0K	J 1/10W	
R13 , 14			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R15 , 16			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R17			RD41FB2B183J	CYLND CHIP R 18K	J 1/8W	
R18			RD41DB2B333J	CYLND CHIP R 33K	J 1/8W	
R19			RK73FB2A100J	CHIP R 10	J 1/10W	
R20			RK73FB2A102J	CHIP R 1.0K	J 1/10W	
R21			RD41DB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R22			RK73FB2A333J	CHIP R 33K	J 1/10W	
R23			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R24			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R25			RK73FB2A333J	CHIP R 33K	J 1/10W	
R26			RK73FB2A104J	CHIP R 100K	J 1/10W	
R27			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R28			RK73FB2A180J	CHIP R 18	J 1/10W	
R29			RK73FB2A331J	CHIP R 330	J 1/10W	
R30			RD41FB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R31			RD41DB2B471J	CYLND CHIP R 470	J 1/8W	
R32			RK73FB2A222J	CHIP R 2.2K	J 1/10W	
R33			RK73FB2A272J	CHIP R 2.7K	J 1/10W	
R35 -37			RK73FB2A473J	CHIP R 47K	J 1/10W	
R38			RD41DB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R39			RD41DB2B103J	CYLND CHIP R 10K	J 1/8W	
R40			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R41			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R42			RK73FB2A473J	CHIP R 47K	J 1/10W	
R43			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R45			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R46			RK73FB2A473J	CHIP R 47K	J 1/10W	
R47			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R48			RK73FB2A222J	CHIP R 2.2K	J 1/10W	
R49			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R50			RK73FB2A222J	CHIP R 2.2K	J 1/10W	
R51			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R52			RD41DB2B222J	CYLND CHIP R 2.2K	J 1/8W	
R53			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R55			RD41DB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R56			RD41DB2B823J	CYLND CHIP R 82K	J 1/8W	
R57			RK73FB2A333J	CHIP R 33K	J 1/10W	
R59 , 60			RD41FB2B272J	CYLND CHIP R 2.7K	J 1/8W	
R61 , 62			RD41FB2B222J	CYLND CHIP R 2.2K	J 1/8W	
R63 , 64			RD41DB2B102J	CYLND CHIP R 1.0K	J 1/8W	
R65 , 66			RD41FB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R67 , 68			RD41DB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R69 , 70			RD41DB2B681J	CYLND CHIP R 680	J 1/8W	
R71 , 72			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	

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R73 ,74			RD41DB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R75			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	
R76			RD41DB2B104J	CYLND CHIP R 100K	J 1/8W	
R77			RK73FB2A471J	CHIP R 470	J 1/10W	
R78			RK73FB2A104J	CHIP R 100K	J 1/10W	
R79 ,80			RK73FB2A473J	CHIP R 47K	J 1/10W	
R83			RD41DB2B102J	CYLND CHIP R 1.0K	J 1/8W	
R85 ,86			RD41FB2B221J	CYLND CHIP R 220	J 1/8W	
R87			RD41DB2B103J	CYLND CHIP R 10K	J 1/8W	
R88			RK73FB2A272J	CHIP R 2.7K	J 1/10W	
R90 ,91			RD41DB2B332J	CYLND CHIP R 3.3K	J 1/8W	
R92 ,93			RD41DB2B223J	CYLND CHIP R 22K	J 1/8W	
R99			RD41DB2B821J	CYLND CHIP R 820	J 1/8W	
R100			RD14DB2H330J	SMALL-RD 33	J 1/2W	
R102			RD41DB2B100J	CYLND CHIP R 10	J 1/8W	
R103			RD41DB2B103J	CYLND CHIP R 10K	J 1/8W	
R104			RD41DB2B101J	CYLND CHIP R 100	J 1/8W	
R105			RD41DB2B222J	CYLND CHIP R 2.2K	J 1/8W	
R200			RD41DB2B222J	CYLND CHIP R 2.2K	J 1/8W	
R201			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R202			RK73FB2A272J	CHIP R 2.7K	J 1/10W	
R203			RK73FB2A303J	CHIP R 30K	J 1/10W	
R204			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R205			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	
VR1			R12-0104-05	TRIMMING POT.		
VR2		*	R12-3096-05	TRIMMING POT.(10K)		
VR3		*	R24-3017-05	POTENTIOMETER(10K)		
D1			S5566B	DIODE		
D1			1SR139-100	DIODE		
D2			DLS1585	DIODE		
D2			RLS-73	DIODE		
D3 ,4			DAN202K	DIODE		
D5 -8			ERA15-01Y1	DIODE		
D10			DA204K	DIODE		
D11			DLS1585	DIODE		
D11			RLS-73	DIODE		
D12			DAP202K	DIODE		
D13			DAN202K	DIODE		
D14			DLS1585	DIODE		
D14			RLS-73	DIODE		
D15			DAP202K	DIODE		
D16			DLS1585	DIODE		
D16			RLS-73	DIODE		
D18			DLS1585	DIODE		
D18			RLS-73	DIODE		
D20			DA204K	DIODE		
D21			RD5.1JS(B2)	ZENER DIODE		
D22			DLS1585	DIODE		
D22			RLS-73	DIODE		
D200,201			DLS1585	DIODE		
D200,201			RLS-73	DIODE		
D204			DLS1585	DIODE		
D204			RLS-73	DIODE		
IC1			BA3708F	IC(MUSIC TRUCK SENSOR)		

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IC2			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC3			BA3900-V1	IC(POWER SUPPLY)		
Q1			2SD1469F	TRANSISTOR		
Q2			DTC124EK	DIGITAL TRANSISTOR		
Q3			DTC144EK	DIGITAL TRANSISTOR		
Q4			DTA144EK	DIGITAL TRANSISTOR		
Q5 -7			2SC2412K(S)	TRANSISTOR		
Q8			DTA144EK	DIGITAL TRANSISTOR		
Q9			DTC124EK	DIGITAL TRANSISTOR		
Q10			2SK669	FET		
Q11			2SA1428(Q,Y)	TRANSISTOR		
Q12 ,13			2SD1469F	TRANSISTOR		
Q14			2SA1037K	TRANSISTOR		
Q15			DTC124EK	DIGITAL TRANSISTOR		
Q16			DTA124EK	DIGITAL TRANSISTOR		
Q17 ,18			DTC124EK	DIGITAL TRANSISTOR		
Q19 -24			2SD1757K	TRANSISTOR		
Q25 ,26			DTC144EK	DIGITAL TRANSISTOR		
Q27			DTC124EK	DIGITAL TRANSISTOR		
Q28 -30			2SB822F	TRANSISTOR		
Q31			2SB1181F5	TRANSISTOR		
Q32			2SC2412K(S)	TRANSISTOR		
Q100			DTC124EK	DIGITAL TRANSISTOR		
Q101			2SB822F	TRANSISTOR		
Q102			DTC124EK	DIGITAL TRANSISTOR		
Q103,104			DTA124EK	DIGITAL TRANSISTOR		
Q105			DTC144EK	DIGITAL TRANSISTOR		
306	2D		W02-1007-05	TUNER ASSY		

ELECTRIC UNIT (X25-3602-70)

311	2D		B11-0801-04	OPTICAL DIFFUSER		
312	2C		B19-0593-04	LIGHTING BOARD		
D1 -21			B30-1208-05	LED		
LCD	2C	*	B38-0504-05	LIQUID CRYSTAL		
PL1 ,2			B30-1305-05	LAMP (5.5V .125A)		
PL3 ,4			B30-1187-05	LAMP (6V 0.155A)		
PL5 ,6			B30-1306-05	LAMP (5.5V .125A)		
PL7 ,8		*	B30-1204-05	LAMP		
PL9		*	B30-1307-15	LAMP (12V .06A)		
C1			CK73FB1E223K	CHIP C 0.022UF K		
C2			CK73FB1H681K	CHIP C 680PF K		
321	2C		E29-0328-04	CONDUCTIVE RUBBER		
322	2D		F15-0802-04	SHADE		
328	2D	*	J25-6176-13	PRINTED WIRING BOARD		
S	2D		N09-1399-05	TAPTRITE SCREW (M2X6 PAN HEAD P TITE)		
J1 -3			R92-0338-05	CLYNLD CHIP R 0 OHM		
R1 -7			RD41DB2B331J	CLYNLD CHIP R 330 J 1/8W		
R8			RK73FB2A513J	CHIP R 51K J 1/10W		
S1 -23			S40-1117-05	PUSH SWITCH		
D24 ,25			ERA15-01Y1	DIODE		

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IC1			LC7582A	IC(LCD DRIVER)				
ELECTRIC UNIT (X25-3642-70)								
C1 ,2			CE04DW1A220M	ELECTRO	22UF	10WV		
C3 -6			CE04DW1A101M	ELECTRO	100UF	10WV		
C7			CK73EB1H103K	CHIP C	0.010UF	K		
C104			CE04DW1A101M	ELECTRO	100UF	10WV		
C105, 106			CC73FCH1H220J	CHIP C	22PF	J		
C107, 108			CK73EB1H223K	CHIP C	0.022UF	K		
C109-112			CK73EB1H182K	CHIP C	1800PF	K		
C113			CE04DW1A101M	ELECTRO	100UF	10WV		
C114			CE04NW1H0R1M	ELECTRO	0.1UF	50WV		
C115			CK73EB1E683K	CHIP C	0.068UF	K		
C116			CE04NW1V3R3M	ELECTRO	3.3UF	35WV		
C170			CE04DW1A101M	ELECTRO	100UF	10WV		
C171-174			CE04DW1H010M	ELECTRO	1.0UF	50WV		
C175-178			CC73FSL1H221J	CHIP C	220PF	J		
C179-182			CE04DW1A220M	ELECTRO	22UF	10WV		
C183			CE04DW1A101M	ELECTRO	100UF	10WV		
C184			CE04DW0J471M	ELECTRO	470UF	6.3WV		
C200, 201			CK73EB1H473K	CHIP C	0.047UF	K		
V	2D		N30-3006-46	PAN HEAD MACHINE SCREW				
J4 -6			R92-0338-05	CLYND CHIP R	0 ΩHM			
J7			R92-0670-05	CHIP R	0 ΩHM			
J8			R92-0338-05	CLYND CHIP R	0 ΩHM			
J9			R92-0670-05	CHIP R	0 ΩHM			
J19 -26			R92-0338-05	CLYND CHIP R	0 ΩHM			
J27			R92-0670-05	CHIP R	0 ΩHM			
J28 -32			R92-0338-05	CLYND CHIP R	0 ΩHM			
J39 ,40			R92-0670-05	CHIP R	0 ΩHM			
J103			R92-0338-05	CLYND CHIP R	0 ΩHM			
J104			R92-0670-05	CHIP R	0 ΩHM			
R1			RD41DB2B101J	CYLND CHIP R	100	J	1/8W	
R2			RK73FB2A104J	CHIP R	100K	J	1/10W	
R5			RD41DB2B101J	CYLND CHIP R	100	J	1/8W	
R6			RD41DB2B223J	CYLND CHIP R	22K	J	1/8W	
R7 ,8			RD41DB2B182J	CYLND CHIP R	1.8K	J	1/8W	
R9 ,10			RD41DB2B104J	CYLND CHIP R	100K	J	1/8W	
R11			RD41DB2B333J	CYLND CHIP R	33K	J	1/8W	
R12			RD41DB2B223J	CYLND CHIP R	22K	J	1/8W	
R13			RD41DB2B911J	CYLND CHIP R	910	J	1/8W	
R14			RD14DB2H2R2J	SMALL-RD	2.2	J	1/2W	
R108			RK73FB2A470J	CHIP R	47	J	1/10W	
R109, 110			RK73FB2A103J	CHIP R	10K	J	1/10W	
R111, 112			RD41DB2B472J	CYLND CHIP R	4.7K	J	1/8W	
R113, 114			RD41DB2B183J	CYLND CHIP R	18K	J	1/8W	
R115, 116			RD41DB2B101J	CYLND CHIP R	100	J	1/8W	
R117, 118			RD41DB2B472J	CYLND CHIP R	4.7K	J	1/8W	
R119, 120			RD41DB2B183J	CYLND CHIP R	18K	J	1/8W	
R121, 122			RD41FB2B103J	CYLND CHIP R	10K	J	1/8W	
R126			RD41DB2B332J	CYLND CHIP R	3.3K	J	1/8W	
R127			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	
R128			RD14DB2H561J	SMALL-RD	560	J	1/2W	
R129-131			RD41DB2B223J	CYLND CHIP R	22K	J	1/8W	

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R132			RD41DB2B472J	CYLND CHIP R 4.7K	J 1/8W	
R133-138			RD41DB2B101J	CYLND CHIP R 100	J 1/8W	
R159,160			RK73FB2A101J	CHIP R 100	J 1/10W	
R161-164			RD41FB2B473J	CYLND CHIP R 47K	J 1/8W	
R165-168			RD41FB2B163J	CYLND CHIP R 16K	J 1/8W	
R169-172			RD41FB2B911J	CYLND CHIP R 910	J 1/8W	
R173-175			RD41FB2B181J	CYLND CHIP R 180	J 1/8W	
R176			RD41DB2B181J	CYLND CHIP R 180	J 1/8W	
R177-180			RD41FB2B122J	CYLND CHIP R 1.2K	J 1/8W	
R181			RD41FB2B103J	CYLND CHIP R 10K	J 1/8W	
R182			RK73FB2A103J	CHIP R 10K	J 1/10W	
R200,201			RK73FB2A104J	CHIP R 100K	J 1/10W	
R204			RK73FB2A104J	CHIP R 100K	J 1/10W	
R205			RD41DB2B104J	CYLND CHIP R 100K	J 1/8W	
VR7 ,8			R10-4033-15	POTENTIOMETER(50KB)		
D1 ,2			DLS1585	DIODE		
D1 ,2			RLS-73	DIODE		
D3			1SS101	DIODE		
D4			HZS11LB2	ZENER DIODE		
D10			DSM1A1	DIODE		
D10			S5566B	DIODE		
D11			DLS1585	DIODE		
D11			RLS-73	DIODE		
D12			DSM1A1	DIODE		
D12			S5566B	DIODE		
D13			DLS1585	DIODE		
D13			RLS-73	DIODE		
D14			DSM1A1	DIODE		
D14			S5566B	DIODE		
D16			DLS1585	DIODE		
IC2 ,3	*	*	RLS-73	IC(OP AMP X2)		
IC4	*	*	UPC4570G2	IC		
IC5	*	*	NJM5532MD	IC		
IC6	*	*	TC74HC04AF	IC(BILATERAL SWITCH X4)		
IC6	*	*	UPD4066BG			
IC10			KC-855	IC(ISOLATION AMP)		
Q1 ,2			DTC124EK	DIGITAL TRANSISTOR		
Q3			2SC2412K	TRANSISTOR		
Q4			2SB941	TRANSISTOR		
Q17			2SA1037K	TRANSISTOR		
Q18			2SC2412K	TRANSISTOR		
Q19			2SA1037K	TRANSISTOR		
Q20			2SA1428	TRANSISTOR		
Q22			DTA124EK	DIGITAL TRANSISTOR		

TUNER UNIT (X86-1142-70)

C1			CK73FB1E103K	CHIP C	0.010UF	K		
C2			CC73FCH1H560J	CHIP C	56PF	J		
C3	-6		C93-0026-05	CHIP C	0.068UF	50WV		
C7			CK73FB1E103K	CHIP C	0.010UF	K		
C8			C92-0016-05	TANTAL	10UF	M		
C9			CK73EB1E104K	CHIP C	0.10UF	K		
C10			C92-0009-05	CHIP TAN	4.7UF	10WV		
C11			CK73DB1H154K	CHIP C	0.15UF	K		
C12 ,13			CF92V1H683J	MF	0.068UF	J		

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R1 , 2			RK73FB2A104J	CHIP R	100K	J	1/10W		
R3			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A123J	CHIP R	12K	J	1/10W		
R5			RK73FB2A333J	CHIP R	33K	J	1/10W		
R6			RK73FB2A244J	CHIP R	240K	J	1/10W		
R7			RK73FB2A273J	CHIP R	27K	J	1/10W		
R8			RK73FB2A564J	CHIP R	560K	J	1/10W		
R9			RK73FB2A683J	CHIP R	68K	J	1/10W		
R10			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R11			RK73FB2A473J	CHIP R	47K	J	1/10W		
R12			RK73FB2A431J	CHIP R	430	J	1/10W		
R13			RK73FB2A684J	CHIP R	680K	J	1/10W		
R14			RK73FB2A224J	CHIP R	220K	J	1/10W		
R15			RK73FB2A563J	CHIP R	56K	J	1/10W		
IC1			AN6556S	IC(OP AMP X2)					
IC2			TDA1579T	IC(DECODER)					

FRONT-END UNIT (X86-1162-70)

C1 -3			CK73FB1E223K	CHIP C	0.022UF	K			
C4			CK73FB1H331K	CHIP C	330PF	K			
C5			CK73FB1H102K	CHIP C	1000PF	K			
C6			CK73FB1H332K	CHIP C	3300PF	K			
C7			CK73FB1E223K	CHIP C	0.022UF	K			
C8			CE04DW1A101M	ELECTRO	100UF	10WV			
C9			CK73FB1E223K	CHIP C	0.022UF	K			
C10			CE04DW1H010M	ELECTRO	1.0UF	50WV			
C11			CE04DW1E4R7M	ELECTRO	4.7UF	25WV			
C12			CE04DW1HR47M	ELECTRO	0.47UF	50WV			
C13			CK73FB1E223K	CHIP C	0.022UF	K			
C14			CB04DW1HR47M	ELECTRO	0.47UF	50WV			
C15			CE04DW1HR33M	ELECTRO	0.33UF	50WV			
C16			CC73FSL1H271J	CHIP C	270PF	J			
C17			CK73FB1H103K	CHIP C	0.010UF	K			
C18			CE04DW1E4R7M	ELECTRO	4.7UF	25WV			
C19			CK73FB1H103K	CHIP C	0.010UF	K			
C20			CE04DW1E4R7M	ELECTRO	4.7UF	25WV			
C21			CE04DW1A101M	ELECTRO	100UF	10WV			
C22			CE04DW1H2R2M	ELECTRO	2.2UF	50WV			
C23 , 24			CC73FSL1H821J	CHIP C	820PF	J			
C25 , 26			CE04DW1A101M	ELECTRO	100UF	10WV			
C27 , 28			CK73FB1H822K	CHIP C	8200PF	K			
C29 , 30			CE04DW1C100M	ELECTRO	10UF	16WV			
C31 , 32			CE04DW1B4R7M	ELECTRO	4.7UF	25WV			
C33 , 34			CK73FB1B183K	CHIP C	0.018UF	K			
C35 , 36			CE04DW1A101M	ELECTRO	100UF	10WV			
C37			CE04DW1A470M	ELECTRO	47UF	10WV			
CF1 , 2			L72-0524-05	CERAMIC FILTER					
L1			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH, K)					
L2			L30-0462-15	FM IFT					
J1 -6			R92-0338-05	CLYND CHIP R	0 ΩHM				
J31 -36			R92-0670-05	CHIP R	0 ΩHM				
J206			R92-0338-05	CLYND CHIP R	0 ΩHM				
R1			RK73FB2A561J	CHIP R	560	J	1/10W		
R2			RK73FB2A222J	CHIP R	2.2K	J	1/10W		

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R3			RK73FB2A161J	CHIP R	160	J	1/10W		
R4			RK73FB2A151J	CHIP R	150	J	1/10W		
R5			RK73FB2A471J	CHIP R	470	J	1/10W		
R6			RK73FB2A103J	CHIP R	10K	J	1/10W		
R7			RK73FB2A393J	CHIP R	39K	J	1/10W		
R8			RK73FB2A022J	CHIP R	8.2K	J	1/10W		
R9			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R10			RK73FB2A114J	CHIP R	110K	J	1/10W		
R11			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R12			RK73FB2A103J	CHIP R	10K	J	1/10W		
R13			RK73FB2A123J	CHIP R	12K	J	1/10W		
R14			RK73FB2A103J	CHIP R	10K	J	1/10W		
R15			RK73FB2A473J	CHIP R	47K	J	1/10W		
R17			RK73FB2A103J	CHIP R	10K	J	1/10W		
R18			RK73FB2A184J	CHIP R	180K	J	1/10W		
R20			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R21			RK73FB2A103J	CHIP R	10K	J	1/10W		
R22			RK73FB2A101J	CHIP R	100	J	1/10W		
R23			RK73FB2A100J	CHIP R	10	J	1/10W		
R24			RD41FB2B223J	CYLND CHIP R	22K	J	1/8W		
R25 , 26			RD41FB2B393J	CYLND CHIP R	39K	J	1/8W		
R27 , 28			RD41FB2B151J	CYLND CHIP R	150	J	1/8W		
R29 , 30			RD41FB2B163J	CYLND CHIP R	16K	J	1/8W		
R31 , 32			RD41FB2B334J	CYLND CHIP R	330K	J	1/8W		
R33 , 34			RD41FB2B332J	CYLND CHIP R	3.3K	J	1/8W		
R35 , 36			RD41FB2B473J	CYLND CHIP R	47K	J	1/8W		
R37 , 38			RD41FB2B392J	CYLND CHIP R	3.9K	J	1/8W		
R39 , 40			RK73FB2A123J	CHIP R	12K	J	1/10W		
R41 , 42			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R43			RD41DB2B101J	CYLND CHIP R	100	J	1/8W		
R44 , 45			RD41FB2B223J	CYLND CHIP R	22K	J	1/8W		
VR1			R12-3072-05	TRIMMING POT.(22K)					
VR2			R12-3100-05	TRIMMING POT.(10K)					
VR3			R12-3103-05	TRIMMING POT.(47K)					
VR4			R12-1063-05	TRIMMING POT.(2.2K)					
VR5 , 6			R12-3100-05	TRIMMING POT.(10K)					
IC1			IF3S201B	IC(FM IF AMP/ DET)					
IC2			EHD-DP1310	IC					
IC3			UPC4570G2	IC(OP AMP X2)					
Q1			2SC2413K	TRANSISTOR					
Q2 , 3			2SC2412K	TRANSISTOR					
Q5			2SC2412K	TRANSISTOR					
Q6			DTC124EK	DIGITAL TRANSISTOR					
Q7 , 8			2SC2412K	TRANSISTOR					
Q9 , 10			2SD1757K	TRANSISTOR					

DOLBY NOISE REDUCTION UNIT (X87-1352-70)

C1 -4		C93-0021-05	CERAMIC	2200PF	J			
C5 , 6		C93-0022-05	CERAMIC	3900PF	J			
C9 , 10		C93-0025-05	CERAMIC	0.22UF	K			
C11 , 12		C93-0024-05	CERAMIC	0.15UF	K			
C13 , 14		CK73FB1E153K	CHIP C	0.015UF	K			
C17 , 18		C93-0025-05	CERAMIC	0.22UF	K			
C19 , 20		CK73EB1E104K	CHIP C	0.10UF	K			
C21 , 22		CK73EB1E563K	CHIP C	0.056UF	K			

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C23 ,24			C93-0023-05	CERAMIC	5600PF	J			
C25 ,26			CK73FB1E103K	CHIP C	0.010UF	K			
R1 -4			RD41FB2B223J	CYLND CHIP R	22K	J	1/8W		
R5 ,6			RD41FB2B202J	CYLND CHIP R	2.0K	J	1/8W		
R7			RD41FB2B134J	CYLND CHIP R	130K	J	1/8W		
R8 ,9			RD41FB2B183J	CYLND CHIP R	18K	J	1/8W		
R10 ,11			RD41FB2B102J	CYLND CHIP R	1.0K	J	1/8W		
R12 ,13			RD41FB2B183J	CYLND CHIP R	18K	J	1/8W		
R14 ,15			RD41FB2B332J	CYLND CHIP R	3.3K	J	1/8W		
R16 ,17			RD41FB2B392J	CYLND CHIP R	3.9K	J	1/8W		
R18 ,19			RD41FB2B105J	CYLND CHIP R	1.0M	J	1/8W		
R20 ,21			RD41FB2B223J	CYLND CHIP R	22K	J	1/8W		
R22 ,23			RD41FB2B561J	CYLND CHIP R	560	J	1/8W		
R24 ,25			RD41FB2B752J	CYLND CHIP R	7.5K	J	1/8W		
R26 ,27			RD41FB2B681J	CYLND CHIP R	680	J	1/8W		
R28 ,29			RD41FB2B912J	CYLND CHIP R	9.1K	J	1/8W		
IC1			CXA1098Q	IC(DOLBY B/C)					
DIGITAL I/O UNIT (X88-1032-70)									
C1			CK73FB1E223K	CHIP C	0.022UF	K			
C2 ,3			CK73FB1E103K	CHIP C	0.010UF	K			
C6			C92-0012-05	TANTAL	22UF	6.3WV			
C7			C92-0005-05	CHIP-TAN	2.2UF	6.3WV			
C8			C92-0009-05	CHIP TAN	4.7UF	10WV			
C10			C92-0009-05	CHIP TAN	4.7UF	10WV			
C11 ,12			CK73FB1E103K	CHIP C	0.010UF	K			
C14		*	C92-0004-05	CHIP TAN	1UF	16WV			
C15			C92-0015-05	TANTALUM CAPACITOR					
C16			CK73EB1E104K	CHIP C	0.10UF	K			
C17 ,18			CC73FCH1H100D	CHIP C	10PF	D			
C19 ,20			CK73FB1E103K	CHIP C	0.010UF	K			
C21 ,22			CK73FB1E223K	CHIP C	0.022UF	K			
J1 ,2			R92-0338-05	CYLND CHIP R	0 OHM				
J4			R92-0338-05	CYLND CHIP R	0 OHM				
J6 ,7			R92-0670-05	CHIP R	0 OHM				
J10			R92-0338-05	CYLND CHIP R	0 OHM				
J20 -22			R92-0338-05	CYLND CHIP R	0 OHM				
R1 ,2			RK73FB2A103J	CHIP R	10K	J	1/10W		
R3			RK73FB2A223J	CHIP R	22K	J	1/10W		
R4			RK73FB2A473J	CHIP R	47K	J	1/10W		
R5			RK73FB2A103J	CHIP R	10K	J	1/10W		
R6 -13			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R14 -17			RK73FB2A474J	CHIP R	470K	J	1/10W		
R19 -21			RK73FB2A103J	CHIP R	10K	J	1/10W		
R22			RK73FB2A473J	CHIP R	47K	J	1/10W		
R23			RK73FB2A104J	CHIP R	100K	J	1/10W		
R24 ,25			RK73FB2A223J	CHIP R	22K	J	1/10W		
R26 ,27			RK73FB2A473J	CHIP R	47K	J	1/10W		
R28			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R30			RK73FB2A103J	CHIP R	10K	J	1/10W		
R31 -33			RK73FB2A473J	CHIP R	47K	J	1/10W		
R34			RK73FB2A103J	CHIP R	10K	J	1/10W		
R35 -37			RK73FB2A473J	CHIP R	47K	J	1/10W		
R38			RK73FB2A104J	CHIP R	100K	J	1/10W		

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PARTS LIST

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R39			RK73FB2A103J	CHIP R	10K	J	1/10W		
R40 , 41			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R42			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R43			RK73FB2A103J	CHIP R	10K	J	1/10W		
R44			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R46			RK73FB2A563J	CHIP R	56K	J	1/10W		
R47			RK73FB2A473J	CHIP R	47K	J	1/10W		
R48			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R49 , 50			RD41DB2B332J	CYLND CHIP R	3.3K	J	1/8W		
R51			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R53 , 54			RK73FB2A103J	CHIP R	10K	J	1/10W		
R55			RK73FB2A223J	CHIP R	22K	J	1/10W		
R56			RK73FB2A103J	CHIP R	10K	J	1/10W		
R57 , 58			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R59			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R60 -62			RK73FB2A473J	CHIP R	47K	J	1/10W		
R63 , 64			RD41DB2B103J	CYLND CHIP R	10K	J	1/8W		
R65			RD41DB2B102J	CYLND CHIP R	1.0K	J	1/8W		
R66			RK73FB2A103J	CHIP R	10K	J	1/10W		
R67 -69			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R70			RK73FB2A333J	CHIP R	33K	J	1/10W		
R71 -73			RK73FB2A473J	CHIP R	47K	J	1/10W		
R74 -76			RK73FB2A103J	CHIP R	10K	J	1/10W		
R77			RK73FB2A474J	CHIP R	470K	J	1/10W		
R78			RK73FB2A471J	CHIP R	470	J	1/10W		
R79 -82			RK73FB2A104J	CHIP R	100K	J	1/10W		
R83			RK73FB2A684J	CHIP R	680K	J	1/10W		
R84			RK73FB2A103J	CHIP R	10K	J	1/10W		
R85			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R86			RK73FB2A473J	CHIP R	47K	J	1/10W		
R88			RK73FB2A104J	CHIP R	100K	J	1/10W		
R89			RK73FB2A473J	CHIP R	47K	J	1/10W		
R90			RK73FB2A103J	CHIP R	10K	J	1/10W		
R91			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R92			RK73FB2A514J	CHIP R	510K	J	1/10W		
R93 , 94			RK73FB2A103J	CHIP R	10K	J	1/10W		
R96 , 97			RK73FB2A103J	CHIP R	10K	J	1/10W		
R98			RK73FB2A104J	CHIP R	100K	J	1/10W		
R99 , 100			RK73FB2A473J	CHIP R	47K	J	1/10W		
R102			RK73FB2A103J	CHIP R	10K	J	1/10W		
R105-108			RK73FB2A473J	CHIP R	47K	J	1/10W		
R109			RK73FB2A103J	CHIP R	10K	J	1/10W		
R111-115			RK73FB2A103J	CHIP R	10K	J	1/10W		
D1 -16			DLS1585	DIODE					
D1 -16			RLS-73	DIODE					
D18 , 19			DLS1585	DIODE					
D18 , 19			RLS-73	DIODE					
D25 -38			DLS1585	DIODE					
D25 -38			RLS-73	DIODE					
D41			DLS1585	DIODE					
D41			RLS-73	DIODE					
D45 -56			DLS1585	DIODE					
D45 -56			RLS-73	DIODE					
IC1	*		75108G-E68-1B	IC(MICROPROCESSOR)					

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IC2			BU4069UBF	IC(INVERTER X6)		
IC2			TC4069UBF	IC(INVERTER X6)		
IC2			UPD4069UBG	IC(INVERTER X6)		
IC3 , 4			BU4081BF	IC		
IC3 , 4			UPD4081BG-T1	IC(AND X4)		
IC5			BU4001BF	IC(2-INPUT NOR GATE)		
IC5			TC4001BF	IC(NOR X6)		
IC5			UPD4001BG-T1	IC(NOR X4)		
Q1			DTA144EK	DIGITAL TRANSISTOR		
Q2			DTC124EK	DIGITAL TRANSISTOR		
Q3			2SA1037K	TRANSISTOR		
Q4			DTC124EK	DIGITAL TRANSISTOR		
Q5			2SA1037K	TRANSISTOR		
Q6			DTA144EK	DIGITAL TRANSISTOR		
Q7			2SA1037K	TRANSISTOR		
Q11			DTC124EK	DIGITAL TRANSISTOR		
Q12			2SA1037K	TRANSISTOR		
Q13			DTC144WK	DIGITAL TRANSISTOR		
Q14			DTC124EK	DIGITAL TRANSISTOR		
Q18			2SC2412K	TRANSISTOR		
Q19 -21			DTC124EK	DIGITAL TRANSISTOR		
Q22 -28			DTA144EK	DIGITAL TRANSISTOR		
Q29			2SA1036K	TRANSISTOR		
Q30 , 31			DTC124EK	DIGITAL TRANSISTOR		
Q32			DTC143TK	DIGITAL TRANSISTOR		
Q34			2SC2412K	TRANSISTOR		
Q35			2SA1037K	TRANSISTOR		
Q36			DTC143TK	DIGITAL TRANSISTOR		
Q37			DTA114EK	DIGITAL TRANSISTOR		
Q38			DTC144WK	DIGITAL TRANSISTOR		
Q39 , 40			DTA144EK	DIGITAL TRANSISTOR		

TUNER ASS'Y (W02-1007-05)

D1			SVC212	DIODE		
D2			HVM14S	DIODE		
D2			1SV172	DIODE		
D3 , 4			SVC212	DIODE		
D5			HVM14S	DIODE		
D5			1SV172	DIODE		
D6			ISS110	DIODE		
D6			1SS53	DIODE		
D7 , 8			SVC321	DIODE		
D7 , 8			1SV149	DIODE		
D9 -11			1SS110	DIODE		
D9 -11			1SS53	DIODE		
D12			SVC321	DIODE		
D12			1SV149	DIODE		
FET2			2SK163	FET		
FET2			2SK494	FET		
IC1			TA8116F	IC		
IC2			LA1135	IC(AM)		
Q2			DTC114	DIGITAL TRANSISTOR		
Q3 , 5			2SC2620	TRANSISTOR		
Q3 , 5			2SC2814	TRANSISTOR		
Q100			3SK126	FET		

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Q101			2SK184	FET		
Q101			2SK209	FET		
TR1			2SC2462	TRANSISTOR		
TR1			2SC2714	TRANSISTOR		
TR2			2SC2668	TRANSISTOR		
TR2			2SC2996	TRANSISTOR		
SCREW SET (N99-0280-05)						
-			J31-0256-15	COLLAR		
-			N09-0366-05	SCREW		
-			N14-0156-05	NUT		
CASSETTE MECHANISM UNIT (D40-0853-05)						
4	3A		D03-0249-08	REEL DISK ASSY		
5	3B		D10-1587-08	LEVER ASSY (FR ARM)		
6	1A		D10-1588-08	LEVER ASSY (PR ARM, F)		
7	1B		D10-1589-08	LEVER ASSY (PR ARM, R)		
8	3A		D10-1590-18	LEVER ASSY (POWER ARM)		
9	2A		D10-1591-08	LEVER ASSY (MODE PLATE)		
10	1B		D10-1606-08	LEVER ASSY (SELECT ARM)		
11	1B		D10-1691-08	LEVER ASSY (POWER PLATE)		
12	1B		D10-1608-08	LEVER ASSY (CHIP ARM)		
13	2A		D10-1592-08	LEVER ASSY (T CRANK)		
14	2B		D10-1593-08	LEVER ASSY (TIMING ARM)		
15	1A		D10-1594-08	ARM (HOUSING ARM)		
16	3A		D13-0322-08	GEAR ASSY (REEL PUSH)		
17	3B		D13-0321-08	GEAR ASSY (FF)		
18	2B		D13-0323-08	GEAR ASSY (RVS)		
19	2B		D13-0324-08	GEAR ASSY (EJECT)		
20	3B		D01-0083-08	FLYWHEEL ASSY		
21	3A		D15-0240-08	PULLEY ASSY (TENSION PULLEY)		
22	3B		D10-1690-08	ARM		
25	2B		D10-1595-08	LEVER (RVS)		
26	2A		D10-1596-08	LEVER (FF)		
27	2A		D10-1597-08	LEVER (BRAKE PLATE, F)		
28	2B		D10-1598-08	LEVER (BRAKE PLATE, R)		
29	2A		J19-2620-08	BRACKET (PLUNGER, A)		
30	2B		J19-2621-08	BRACKET (PLUNGER, B)		
31	2B		D10-1609-08	ARM (TRIGGER PLATE)		
32	3B		D10-1689-08	ARM (RVS TRIGGER)		
33	2B		D10-1611-08	LEVER (EJECT)		
34	2B		D10-1612-08	LEVER ASSY (RESET)		
35	1B		J19-2624-08	BRACKET		
36	1B		D10-1688-08	ARM (ADJUSTER)		
37	1A		G02-0383-08	FLAT SPRING		
38	1A		J19-2622-08	HOLDER (CASSETTE HOUSING)		
39	3B		D10-1600-08	ARM (GEAR SHAFT GUIDE)		
40	1A		J19-2876-08	BRACKET (TRO)		
41	1A		D10-1601-08	ARM		
42	2B		D10-1613-08	LEVER (SLIDE)		
43	2A		D10-1602-08	SLIDER (PLUNGER BUFFER)		
45	2A		D10-1603-08	ARM (FF CRANK)		
46	1B		D10-1604-08	ARM (AZIMUTH)		
47	1B		D14-0137-08	ROLLER (H/P, C)		
48	1A		J90-0162-08	GUIDE		

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49	1A		D14-0138-08	ROLLER	(H/A)		
50	3A, 3B		D13-0318-08	GEAR	(IDLER)		
51	3A		B09-0056-08	CAP	(REBEL DRIVER)		
52	3A		D13-0319-08	GEAR	(φ15.2)		
53	3B		D13-0320-08	GEAR	(INPUT)		
54	2B		D13-0325-08	GEAR	(A)		
55	3B		D13-0326-08	GEAR	(B)		
56	3B		D13-0327-08	GEAR	(C)		
57	3B		D13-0328-18	GEAR	(MODE)		
59	2A		J32-0320-08	STUD			
60	2A		D14-0139-08	ROLLER	(TIMING/A)		
62	2A		D14-0140-08	ROLLER	(H/P ROLLER,A)		
63	2A		D14-0141-08	ROLLER	(H/P ROLLER,B)		
64	2B		D14-0142-08	ROLLER	(MODE)		
65	2B		J30-0214-08	SPACER			
67	1A, 1B		N09-1583-08	SCREW			
69	3B		G01-1860-08	TENSION			
70	1A		G01-1794-08	TORSION SP	(PR ARM,F)		
71	1B		G01-1795-08	TORSION SP	(PR ARM,R)		
72	1A		G01-1796-08	TENSION	(H/P)		
73	2B		G01-1797-08	TENSION	(IDLER)		
74	3A		G01-1798-08	TORSION SP	(FF ARM)		
75	2A, 2B		G01-1799-08	TENSION	(BRAKE)		
76	2B		G01-1805-08	TORSION SP	(TRIGGER)		
77	3B		G01-1806-08	TENSION	(RVS/T)		
78	1B		G01-1807-08	TENSION	(CHIP ARM)		
79	2B		G01-1808-08	TENSION	(STARTER)		
80	2B		G01-1809-08	TENSION	(EJ/P)		
81	2B		G01-1810-08	TENSION	(RESET/P)		
82	3A		G01-1793-08	COMPRESSION	(SLEEVE)		
83	1B		G01-1800-08	COMPRESSION	(AZIMUTH LOCK)		
84	2A		G01-1801-08	TENSION	(POWER)		
85	2B		G01-1802-08	TORSION SP	(TIMING ARM)		
86	1A		G01-1803-08	TORSION SP	(REVERSE)		
87	1B		G01-1823-08	TENSION			
88	2A		G01-1804-08	TENSION	(BUFFER)		
89	2A		G11-1145-08	CUSHION	(CH)		
90	3B		D16-0127-08	BELT			
91	1A		D10-1605-08	ROD	(OVER CENTER ROD)		
92	1B		N09-1584-08	SCREW	(AZIMUTH)		
93	2A		J30-0213-08	SPACER	(T)		
96	1A		T31-0032-08	PLAYBACK HEAD			
103	1B, 2B		T94-0213-08	SOLENOID			
104	2A		T94-0092-08	SOLENOID			
105	2A		T94-0093-08	SOLENOID			
110	1B		N09-1585-08	SCREW	(M1.7X7)		
111	2A		N09-1586-08	SCREW	(M2X5.5)		
112	3A, 1B		N09-1587-08	SCREW	(M2X3)		
113	2B		N09-1588-08	SCREW	(M2X5)		
115	1A, 2A		N09-1589-08	SCREW	(M2X4)		
116	2B		N09-1590-08	SCREW	(M2X5)		
120	2A, 3B		N24-3012-41	E RING	(φ1.2)		
121	2A, 2B		N24-3015-41	E RING	(φ1.5)		
122	2A, 2B		N29-0097-08	E RING	(1.6X3.5)		
123	1A		N24-3025-41	E RING	(φ2.5)		

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124	3A		N24-3030-41	E RING (Φ3)		
130	3A, 3B		N19-0374-05	FLAT WASHER (Φ1.2X3X0.25)		
131	3A, 3B		N19-0375-05	FLAT WASHER (Φ1.6X3.2X0.25)		
132	3B		N19-1987-08	FLAT WASHER (Φ1.6X3.2X0.5)		
133	2A, 2B		N19-0988-08	FLAT WASHER (Φ2.1X3.5X0.25)		
134	3B		N19-0989-08	FLAT WASHER (Φ2.1X4X0.25)		
135	3A		N19-0990-08	FLAT WASHER (Φ2.1X4X0.25)		
136	2A		N19-1103-08	FLAT WASHER (Φ2.1X4X0.5)		
137	3B		N19-1102-08	FLAT WASHER (Φ2.1X3.5X0.4)		
138	3A		N19-1104-08	FLAT WASHER (Φ2.1X3.5X0.4)		
143	3A		J25-5727-08	PRINTED WIRING BOARD		
146	1A, 1B		J31-0813-08	COLLAR		
147	1A		D14-0287-08	ROLLER		
150	3A		D03-0263-08	REEL DISK ASSY		
151	1B		J25-7020-08	PRINTED WIRING BOARD ASSY		
152	2B		A11-0191-18	SUB CHASSIS ASSY		
153	1B		G01-2384-08	TØRSINO SP		
M1	1A		T43-0492-08	DC MOTOR ASSY		
-			J61-0077-08	WIRE BAND		
-			J61-0082-08	WIRE BAND		
A	2A, 2B		N35-2603-46	BINDING HD MACHINE SCREW		
R2	1B		RD14BB2C121J	RD 120 J 1/6W		
S1	1B		S46-1078-08	LEAF SWITCH (MLS-4)		
S2	1B		S31-4020-08	SLIDE SWITCH (HEAD)		
S3	1B		S46-1077-08	LEAF SWITCH		

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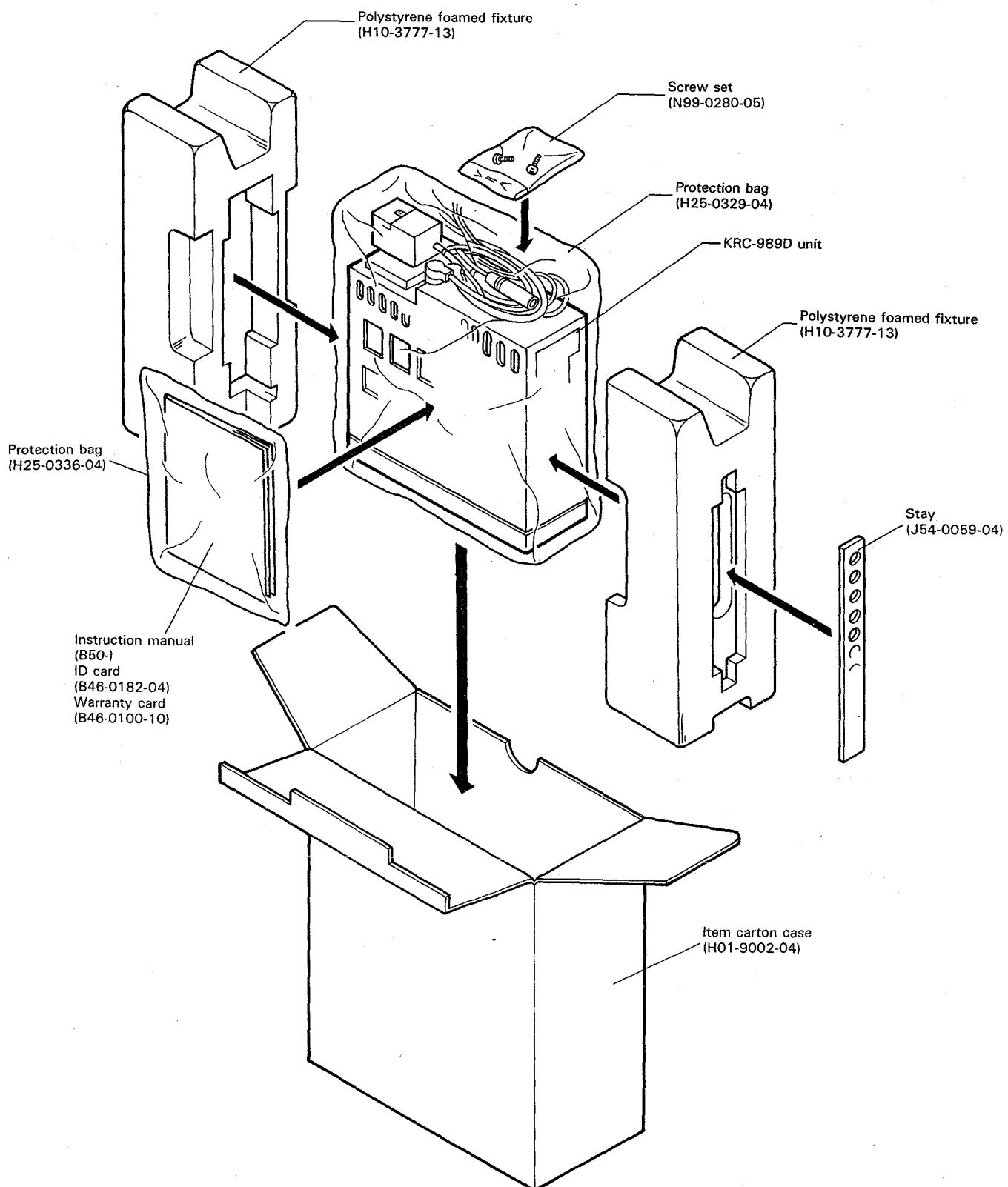
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PACKING



* Refer to parts list on page 45.